

FIG. 1

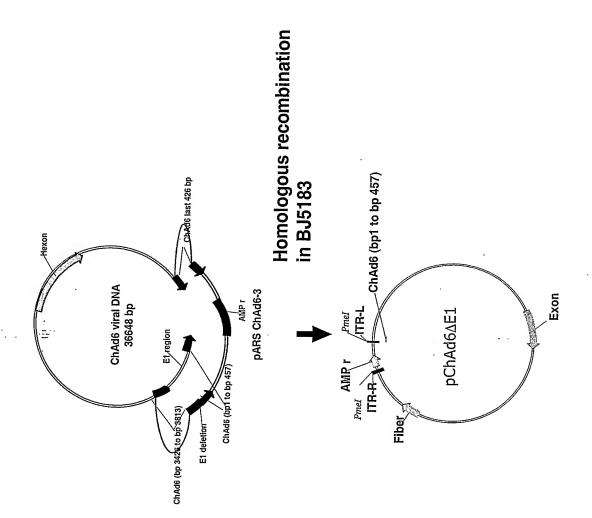


FIG. 2

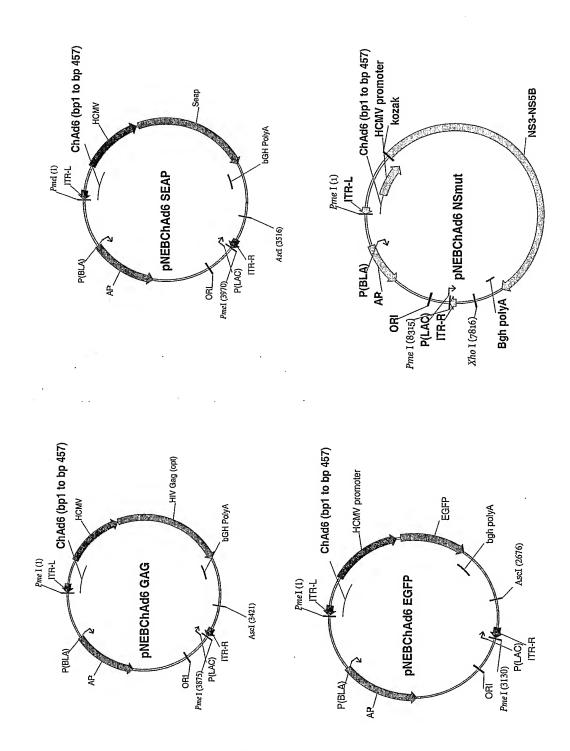


FIG. 3

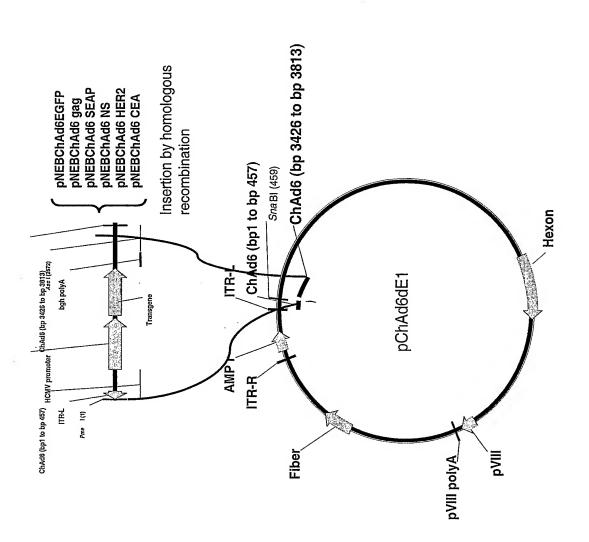


FIG. 4

1	CATCATCAAT	AATATACCTT	ATTTTGGATT	GAAGCCAATA	TGATAATGAG	ATGGGCGGCG
61		CGCGGGGCGG				
121	GCGGAAGTGG	ACTTTGTAAG	TGTGGCGGAT	GTGACTTGCT	AGTGCCGGGC	GCGGTAAAAG
181		CGTGCGCGAC			=	_
241		GTGAATTTGG			•	
301		AGTGAAATCT				
361	GGGCCGAGGG	ACTTTGGCCG	ATTACGTGGA	GGACTCGCCC	AGGTGTTTTT	TGAGGTGAAT
421		CGGGTCAAAG				
481		TGATCTCGTC			-	
541		TCCGCTCCGC				
601	ACCTACGATG	GCGGTGTGCT	CACCGGCCAG	CTGGCTGCTG	AGGTCCTGGA	CACCCTGATC
661	GAGGAGGTAT	TGGCCGATAA	TTATCCTCCC	TCGACTCCTT	TTGAGCCACC	TACACTTCAC
721		ATCTGGATGT				
781	TTTTTTCCAG	AGTCCATGTT	GTTGGCCAGC	CAGGAGGGG	TCGAACTTGA	GACCCCTCCT
841		ATTCCCCCGA				
901		TGCCCCAGCT				
961	TTTCCACCCA	GCGAGGATGA	GGACGAAGAG	GGTGAGCAGT	TTGTGTTAGA	TTCTGTGGAA
1021	CAACCCGGGC	GAGGATGCAG	GTCTTGTCAA	TATCACCGGA	AAAACACAGG	AGACTCCCAG
1081	ATTATGTGTT	CTCTGTGTTA	TATGAAGATG	ACCTGTATGT	TTATTTACAG	TAAGTTTATC
1141	ATCGGTGGGC	AGGTGGGCTA	TAGTGTGGGT	GGTGGTCTTT	GGGGGGTTTT	TTAATATATG
1201	TCAGGGGTTA	TGCTGAAGAC	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TGATTTTTAA	AGGTCCAGTG	TCTGAGCCCG
1261	AGCAAGAACC	TGAACCGGAG	CCTGAGCCTT	CTCGCCCCAG	GAGAAAGCCT	GTAATCTTAA
1321	CTAGACCCAG	CGCACCGGTA	GCGAGAGGCC	TCAGCAGCGC	GGAGACCACC	GACTCCGGTG
1381	CTTCCTCATC	ACCCCCGGAG	ATTCACCCCC	TGGTGCCCCT	ATGTCCCGTT	AAGCCCGTTG
1441	CCGTGAGAGT	CAGTGGGCGG	CGGTCTGCTG	TGGAGTGCAT	TGAGGACTTG	CTTTTTGATT
1501		TTTGGACTTG				
1561	TGAATGAGTT	GACGCCTATG	TTTGCTTTTG	AATGACTTAA	TGTGTATAGA	TAATAAAGAG
1621		TTTTAATTGC				
1681	GCTTCCCTGG	GCTAAACTTG	GTTACACTTG	ACCTCATGGA	GGCCTGGGAG	TGTTTGGAGA
1741	ACTTTGCCGG	AGTTCGTGCC	TTGCTGGACG	AGAGCTCTAA	CAATACCTCT	TGGTGGTGGA
1801	GGTATTTGTG	GGGCTCTCCC	CAGGGCAAGT	TAGTTTGTAG	AATCAAGGAG	GATTACAAGT
.1861		AGAGCTTTTG				
1921		CTTCCAGGAG				
1981		GGTTGCTTTT				
2041		CTACGTCCTG				
2101		GCTGCAACTG				
2161		GTCAGAGGAC				
2221		CGCGCTGAAC				
2281		GTGGTGGATC				
2341		GTTAAGGGTC				
2401		GCTTTTAGCT				
2461		AATTGTGCCA				
2521		TACTGGCTGC				
2581		CTGCGGCCCG				
2641		ATTTCTGGCA				
2701		AGCATGATGA				
2761		AGGTTCACGG				
2821		CACGGGGTGA				
2881		GTCCGCGGTT				
2941		AGTTCCATTA				
3001 3061		TGCAGGGTGC				
3121		GCGGTAATCA				
3121		ACCTGCACGG				
3241		AAGGCCTGGC				
3301	TCTGGGCAAC					
3361	CTTGCTAGAG					
3421	GAAGATCTGG CGGGGGCAAG					
J = 2 4	CGGGGGCAAG	CATALGAGGA	ACCAGCCG1	GWIGCIGGWI	DUADUUADE	JADUN L JUA

3481	AGACCACTTG	GTTCTGGCCT	GCACCAGGGC	CGAGTTTGGT	TCTAGCGATG	AAGACACAGA
3541	TTGAGGTGGG	TGAGTGGGCG	TGGCCTGGGG	TGGTCATGAA	AATATATAAG	TTGGGGGTCT
3601	TAGGGTCTCT	TTATTTGTGT	TGCAGAGACC	GCCGGAGCCA	TGAGCGGGAG	CAGCAGCAGC
3661	AGCAGTAGCA	GCAGCGCCTT			CTTATTTGAC	
3721	CCCCACTGGG	CCGGGGTGCG	TCAGAATGTG	ATGGGCTCCA	GCATCGACGG	CCGACCCGTC
3781	CTGCCCGCAA	ATTCCGCCAC	GCTGACCTAT	GCGACCGTCG	CGGGGACGCC	GTTGGACGCC
3841	ACCGCCGCCG	CCGCCGCCAC	CGCAGCCGCC	TCGGCCGTGC	GCAGCCTGGC	CACGGACTTT
3901	GCATTCCTGG	GACCACTGGC	GACAGGGGCT	ACTTCTCGGG	CCGCTGCTGC	CGCCGTTCGC
3961	GATGACAAGC	TGACCGCCCT	GCTGGCGCAG	TTGGATGCGC	TTACTCGGGA	ACTGGGTGAC
4021	CTTTCTCAGC	AGGTCATGGC	CCTGCGCCAG	CAGGTCTCCT	CCCTGCAAGC	TGGCGGGAAT
4081	GCTTCTCCCA	CAAATGCCGT	TTAAGATAAA	TAAAACCAGA	CTCTGTTTGG	ATTAAAGAAA
4141	AGTAGCAAGT	GCATTGCTCT	CTTTATTTCA	TAATTTTCCG	CGCGCGATAG	GCCCTAGACC
4201	AGCGTTCTCG	GTCGTTGAGG	GTGCGGTGTA	TCTTCTCCAG	GACGTGGTAG	AGGTGGCTCT
4261	GGACGTTGAG	ATACATGGGC	ATGAGCCCGT	CCCGGGGGTG	GAGGTAGCAC	CACTGCAGAG
4321	CTTCATGCTC	CGGGGTGGTG	TTGTAGATGA	TCCAGTCGTA	GCAGGAGCGC	TGGGCATGGT
4381	GCCTAAAAAT	GTCCTTCAGC	AGCAGGCCGA	TGGCCAGGGG	GAGGCCCTTG	GTGTAAGTGT
4441	TTACAAAACG	GTTAAGTTGG			GATGATGTGC	
4501	GTATTTTTAG	ATTGGCGATG	TTTCCGCCCA	GATCCCTTCT	GGGATTCATG	TTGTGCAGGA
4561	CCACCAGTAC	AGTGTATCCG	GTGCACTTGG	GGAATTTGTC	ATGCAGCTTA	GAGGGAAAAG
4621	CGTGGAAGAA	CTTGGAGACG	CCCTTGTGGC	CTCCCAGATT	TTCCATGCAT	TCGTCCATGA
4681	TGATGGCAAT	GGGCCCGCGG	GAGGCAGCTT	GGGCAAAGAT	ATTTCTGGGG	TCGCTGACGT
4741			AGGTCGTCAT		TACAAAGCGC	GGGCGGAGGG
4801	TGCCCGACTG	GGGGATGATG	GTCCCCTCTG	GCCCTGGGGC	GTAGTTGCCC	
4861	GCATTTCCCA	GGCCTTAATC	TCGGAGGGG	GAATCATATC	CACCTGCGGG	GCGATGAAGA
4921	AAACGGTTTC	CGGAGCCGGG			CAGGTTTCTA	
4981					CGGTTGCAGC	
5041	GAGAGCTGCA	GCTGCCGTCG	TCCCGGAGGA	-GGGGGGCCAC	CTCGTTGAGC	ATGTCCCTGA
5101					GCCGCCCAGG	
5161			TTCAGCGGCT			
5221			AGGCGGTCCC			
5281			TTCGCGGGTT		TCGCTGTAGG	
5341					CGCAGGGTCC	
5401			GGTGCGCTCC		CTTGCCAAGG	
5461			AGCGCTGCCG		TGCGCGTCGG	
5521	TTTGACCATG		CCAGCCCCTC			
5581	CTTGGAGGTG				AGCGCGTAGA	
5641	GAGGAAGACC				ACCCCGCACA	
5701	CTCCACCAGC				ACCAGGTTTC	
5761	TTTGATGCGT		GGGTCTCCAT		CCCCGCTCGG	
5821	GCTGTCCGTG		CCGACTTGAG		TCCAGGGGGG	
5881	TTCCTCGTAG				CGCGTCCAGG	
5941	~~~~~~~~				GGGTCCACCT	
6001					ATTGGCTTGT	
6061					GTGGGGGCGC	
6121					GGTGAGTATT	
6181					AACGAGGAGG	
6241					ATCTGGTCAG	
6301					GCGTTGGAGA	
6361					TCCTTGGCCG	
6421					ACGGTGGTGC	
6481					AGGTCCACGC	
6541					CCCTTGCGCG	
6601					TCCACGGTGA	
6661					ATGTCCAGCG	
6721						
					GGGCCCCAGG	
6781 6841					TAGAGGGGCT	
6841					GCGCGCACGT	
6901	CTCGTGCGAG	GGGGCGAGGA	GGTCGGGGCC	CAGGTTGGTG	CGGGCGGGGC	GCTCCGCGCG

6961	CAACACCAMC	macaman nan	maaaa maaaa	COMPCON N CN C	» maamaaaaa	~~~~~~
7021						GCTGGAAGAC
						AGGAGTCGCG
7081			CGGTGACCTG			
7141						TGAGGACAAA
7201			ACTCTTGGAT			
7261			TGACGGCCTG			
7321			TGCGGAGCGA			
7381			GCTTGAAGTC			
7441			TGGAGCGGGG			
7501			GCATGAAGTT			
7561	AGAGCGGTTG	TTGATGACCT	GGGCGGCGAG	CACGATCTCG	TCGAAGCCGT	TGATGTTGTG
7621	GCCCACGATG	TAGAGTTCCA	GGAAGCGGGG	CCGGCCCTTT	ACGGTGGGCA	GCTTCTTTAG
7681			CGGGCGAGGC			
7741	GAGGTGCGGG	TTGTCTCTGA	GGAAGGACTC	CCAGAGGTCG	CGGGCCAGGA	GGGTCTGCAG
7801	GCGGTCCCTG	AAGGTCCTGA	ACTGGCGGCC	CACGGCCATT	TTTTCGGGGG	TGATGCAGTA
7861			GCCAGCGGTC			
7921	GGCGGTGACC	AGGCGCTCGT	CGCCCCGAA	TTTCATGACC	AGCATGAAGG	GCACGAGCTG
7981	CTTTCCGAAG	GCCCCCATCC	AAGTGTAGGT	CTCTACATCG	TAGGTGACAA	AGAGGCGCTC
8041	CGTGCGAGGA	TGCGAGCCGA	TCGGGAAGAA	CTGGATCTCC	CGCCACCAGT	TGGAGGAGTG
8101			AGAAGTCCCG			
8161			GGCAGCGCTG			
8221			AGCCGAGGGG			
8281			TGGATGCGTG			
8341			CGCCGCGCGA			
8401			CGCGCAGCTG			
8461			GTTCTTGCAG			
8521			TGATCTCTAG			
8581			GGGCGACGAC			
8641			AGCTCAGAAG			
8701			CAGGGGCGGC			
8761			GTTGCTGGCG			
8821			GACGACGGGC			
8881			ATTGACCGCG			
8941			CTCGGCCATG			
9001			GGTGGCCGCC			
9061			CTCGTTCCAG			
9121			CTGCGCGAGG			
9181			GAGGTAGTTG			
9241			CAACGTGGAT			
9301			CACGGCGAAG			
9361			ACGGATGAGC			
9421			CTCCGCTAGC			
9481			CTCCTCTTCG			
9541	GGCGCTCTGC	GCCGGCGGCG	GCGCACCGGG	AGGCGGTCCA	CGAAGCGCGC	GATCATCTCC
9601			CTCGGTGACG			
9661	AAGACGCCGC	CGGACATCTG	GTGCTGGGGC	GGGTGGCCGT	GAGGCAGCGA	AACCCCCCTC
9721			CTGCGTAGGT			
9781			TTCGAGGAAG			
9841	CTGAGCACCG	TGGCGGGCGG	CGGGGGGTGG	GGGGAGTGTC	TCCCCCACCT	CCTCCTCATC
9901			CTTGACACGG			
9961	GGTCCGGCCT	GCTGGATGCG	GAGGCGGTCG	GCTATGCCCC	ACCCTTCCTT	CTCCCATCCC
10021	CGCAGGTCCT	TGTAGTAGTC	TTGCATGAGC	CTTTCCACCC	GCACCACAAA	4CCAACCAC
10081	TCTGCTTCTT	CCATGTCTGC	TTCGGCCCTG	GGGCGCCCC	GCGCCCCC	CCCTTCCTCT
10141			GAGCGGTTGG			
10201			CTGCGTGAGG			
10261			GATGGTGTAG			
10321			CATCTCGGTG			
10381	AAGACGTAGT	CGTTGCAAGT	CCGCACCAGG	TACTGGTAGC	CCACCAGGA	CTCCGGAGICG
					~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	

10441		AGAGGGGCCA				
10501		GGTAGGCGTA				
10561		GGAAGTCGCG				
10621		TGCTCTGTCC				
10681		GGTCAGCGGG				
10741		CCTCGGTTCG				
10801		CGCGTGTCGA				
10861		TCTGGCCGGG				
10921		CTCGCTCCCC				
10981		GAATCCCGTA				
11041		TATAAAGACC				
11101		TTTCCCCAGA				
11161		CACCAGCAAG				
11221		GGCGGGCCGG				
11281		CCGGCTGACG				
11341		GAGGGCGAGG				
11401		CTGAAGCGCG				
11461		GGCGAGGAGC				
11521		GGGCTGAACC				
11581		ATCAGCCCCG				
11641		GTGAACCAGG				
11701		CGCGAGGAGG				
11761		AACCCCAACA				
11821		AACGAGGCGT				
11881		GACCTGATTA				
11941		AAGGTGGCGG				
12001		TACCAGACGC				
12061		ATGGCGCTGA				
	CGAGCGCATC					
	GATGCACAGC					
12241		GCGGGGGCGG				
12301		GAGGACTATG				
12361		CTGGACTAAA				
12421		CGCTGCGGGC				
12481		AGGTCATGGA				
12541		CGCAGGCCAA				
12601		CGCACGAGAA				
12661		ACGAGGCCGG				
12721		ACGTGCAGAC				
12781		AGCGCGCGGA				
12841		CGCAGCCGGC				
12901		GGCTGATGGT				
12961		TCCAGACCAG	- <del>-</del>			
13021		GGGGGCTGTG				
13081 13141		CGCCCAACTC				
		CCCGGGACAC				
13201 13261		AGGTGGACGA				
13321		ACACGAGCAG				
13321		CCTCGCTGCA				
13441		TGAGCCTGAA				
13501		GCAACATGGA ACCTGCATCG				
13561		ACCTGCATCG				
13621		GCTTCCTGTG				
13681		AAGCGTCCCT				
13741		GCGGCGTGGC				
13801		GCGGCAGCCC				
13861		GGGTGCTGGG				
TO 0 0 T	11000000000	-GCTGCTGGG	DADJADDAD	ACCIGAAIA	ACICUIGUT	らいないことはいい

13921		ACCŤGCCCCC				
13981	ATGAGCAGAT	GGAAGACCTA	TGCGCAGGAG	CACAGGGACG	CGCCCGCGCT	CCGGCCGCCC
14041	ACGCGGCGCC	AGCGCCACGA	CCGGCAGCGG	GGGCTGGTGT	GGGATGACGA	GGACTCCGCG
14101	GACGATAGCA	GCGTGCTGGA	CCTGGGAGGG	AGCGGCAACC	CGTTCGCGCA	CCTGCGCCCC
14161	CGCCTGGGGA	GGATGTTTTA	AAAAAAAAA	AAGCAAGAAG	CATGATGCAA	AATTAAATAA
14221	AACTCACCAA	GGCCATGGCG	ACCGAGCGTT	GGTTTCTTGT	GTTCCCTTCA	GTATGCGGCG
14281	CGCGGCGATG	TACCAGGAGG	GACCTCCTCC	CTCTTACGAG	AGCGTGGTGG	GCGCGGCGGC
14341	GGCGGCGCCC	TCTTCTCCCT	TTGCGTCGCA	GCTGCTGGAG	CCGCCGTACG	TGCCTCCGCG
14401	CTACCTGCGG	CCTACGGGGG	GGAGAAACAG	CATCCGTTAC	TCGGAGCTGG	CGCCCCTGTT
14461	CGACACCACC	CGGGTGTACC	TGGTGGACAA	CAAGTCGGCG	GACGTGGCCT	CCCTGAACTA
14521	CCAGAACGAC	CACAGCAATT	TTTTGACCAC	GGTCATCCAG	AACAATGACT	ACAGCCCGAG
14581	CGAGGCCAGC	ACCCAGACCA	TCAATCTGGA	TGACCGGTCG	CACTGGGGCG	GCGACCTGAA
14641	AACCATCCTG	CACACCAACA	TGCCCAACGT	GAACGAGTTC	ATGTTCACCA	ATAAGTTCAA
14701	GGCGCGGGTG	ATGGTGTCGC	GCTCGCACAC	CAAGGAAGAC	CGGGTGGAGC	TGAAGTACGA
14761	GTGGGTGGAG	TTCGAGCTGC	CAGAGGGCAA	CTACTCCGAG	ACCATGACCA	TTGACCTGAT
14821	GAACAACGCG	ATCGTGGAGC	ACTATCTGAA	AGTGGGCAGG	CAAAACGGGG	TCCTGGAGAG
14881	CGACATCGGG	GTCAAGTTCG	ACACCAGGAA	CTTCCGCCTG	GGGCTGGACC	CCGTGACCGG
14941	GCTGGTTATG	CCCGGGGTGT	ACACCAACGA	GGCCTTCCAT	CCCGACATCA	TCCTGCTGCC
15001.	CGGCTGCGGG	GTGGACTTCA	CTTACAGCCG	CCTGAGCAAC	CTCCTGGGCA	TCCGCAAGCG
15061	GCAGCCCTTC	CAGGAGGGCT	TCAGGATCAC	CTACGAGGAC	CTGGAGGGGG	GCAACATCCC
15121	CGCGCTCCTC	GATGTGGAGG	CCTACCAGGA	TAGCTTGAAG	GAAAATGAGG	CGGGACAGGA
15181	GGATACCACC	CCCGCCGCCT	CCGCCGCCGC	CGAGCAGGGC	GAGGATGCTG	CTGACACCGC
15241	GGCCGCGGAC	GGGGCAGAGG	CCGACCCCGC	TATGGTGGTG	GAGGCTCCCG	AGCAGGAGGA
15301	GGATATGAAT	GACAGTGCGG	TGCGCGGAGA	CACCTTCGTC	ACCCGGGGGG	AGGAAAAGCA
15361	AGCGGAGGCC	GAGGCCGCGG	CCGAGGAAAA	GCAACTGGCG	GCAGCAGCGG	CGGCGGCGGC
15421	GTTGGCCGCG	GCGGAGGCTG	AGTCTGAGGG	GACCAAGCCC	GCCAAGGAGC	CCGTGATTAA
15481	GCCCCTGACC	GAAGATAGCA	AGAAGCGCAG	TTACAACCTG	CTCAAGGACA	GCACCAACAC
15541	CGCGTACCGC	AGCTGGTACC	TGGCCTACAA	CTACGGCGAC	CCGTCGACGG	GGGTGCGCTC
15601	CTGGACCCTG	CTGTGCACGC	CGGACGTGAC	CTGCGGCTCG	GAGCAGGTGT	ACTGGTCGCT
15661	GCCCGACATG	ATGCAAGACC	CCGTGACCTT	CCGCTCCACG	CGGCAGGTCA	GCAACTTCCC
15721	GGTGGTGGGC	GCCGAGCTGC	TGCCCGTGCA	CTCCAAGAGC	TTCTACAACG	ACCAGGCCGT
15781	CTACTCCCAG	CTCATCCGCC	AGTTCACCTC	TCTGACCCAC	GTGTTCAATC	GCTTTCCTGA
15841	GAACCAGATT	CTGGCGCGCC	CGCCCGCCCC	CACCATCACC	ACCGTCAGTG	AAAACGTTCC
15901	TGCTCTCACA	GATCACGGGA	CGCTACCGCT	GCGCAACAGC	ATCGGAGGAG	TCCAGCGAGT
15961	GACCGTTACT	GACGCCAGAC	GCCGCACCTG	CCCCTACGTT	TACAAGGCCT	TGGGCATAGT
16021	CTCGCCGCGC	GTCCTTTCCA	GCCGCACTTT	TTGAGCAACA	CCACCATCAT	GTCCATCCTG
16081	ATCTCACCCA	GCAATAACTC	CGGCTGGGGA	CTGCTGCGCG	CGCCCAGCAA	GATGTTCGGA
16141	GGGGCGAGGA	AGCGTTCCGA	GCAGCACCCC	GTGCGCGTGC	GCGGGCACTT	CCGCGCCCCC
16201	TGGGGAGCGC	ACAAACGCGG	CCGCGCGGGG	CGCACCACCG	TGGACGACGC	CATCGACTCG
16261	GTGGTGGAGC	AGGCGCGCAA	CTACAGGCCC	GCGGTCTCTA	CCGTGGACGC	GGCCATCCAG
16321	ACCGTGGTGC	GGGGCGCG	GCGGTACGCC	AAGCTGAAGA	GCCGCCGGAA	GCGCGTGGCC
16381	CGCCGCCACC	GCCGCCGACC	CGGGGCCGCC	GCCAAACGCG	CCGCCGCGGC	CCTGCTTCGC
16441	CGGGCCAAGC	GCACGGGCCG	CCGCGCCGCC	ATGAGGGCCG	CGCGCCGCTT	GGCCGCCGGC
16501	ATCACCGCCG	CCACCATGGC	CCCCCGTACC	CGAAGACGCG	CGGCCGCCGC	CGCCGCCGCC
16561	GCCATCAGTG	ACATGGCCAG	CAGGCGCCGG	GGCAACGTGT	ACTGGGTGCG	CGACTCGGTG
16621	ACCGGCACGC	GCGTGCCCGT	GCGCTTCCGC	CCCCCGCGGA	CTTGAGATGA	TGTGAAAAAA
16681	CAACACTGAG	TCTCCTGCTG	TTGTGTGTAT	CCCAGCGGCG	GCGGCGCGCG	CAGCGTCATG
16741	TCCAAGCGCA	AAATCAAAGA	AGAGATGCTC	CAGGTCGTCG	CGCCGGAGAT	CTATGGGCCC
16801	CCGAAGAAGG	AAGAGCAGGA	TTCGAAGCCC	CGCAAGATAA	${\tt AGCGGGTCAA}$	AAAGAAAAAG
16861	AAAGATGATG	ACGATGCCGA	TGGGGAGGTG	GAGTTCCTGC	GCGCCACGGC	GCCCAGGCGC
16921	CCGGTGCAGT	GGAAGGGCCG	GCGCGTAAAG	CGCGTCCTGC	GCCCCGGCAC	CGCGGTGGTC
16981	TTCACGCCCG	GCGAGCGCTC	CACCCGGACT	TTCAAGCGCG	${\tt TCTATGACGA}$	GGTGTACGGC
17041	GACGAAGACC	${\tt TGCTGGAGCA}$	GGCCAACGAG	CGCTTCGGAG	${\tt AGTTTGCTTA}$	CGGGAAGCGT
17101	CAGCGGGCGC	${\tt TGGGGAAGGA}$	GGACCTGCTG	GCGCTGCCGC	${\tt TGGACCAGGG}$	CAACCCCACC
17161	CCCAGTCTGA	AGCCCGTGAC	CCTGCAGCAG	GTGCTGCCGA	GCAGCGCACC	CTCCGAGGCG
17221	AAGCGGGGTC	${\tt TGAAGCGCGA}$	GGGCGGCGAC	CTGGCGCCCA	${\tt CCGTGCAGCT}$	CATGGTGCCC
17281	AAGCGGCAGA	${\tt GGCTGGAGGA}$	TGTGCTGGAG	AAAATGAAAG	TAGACCCCGG	TCTGCAGCCG
					TCGGCGTGCA	

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17401		CCACCGGCAA				
17461	ATGGAGACAC	AGACCGATCC	CGCCGCAGCC	GCAGCCGCCG	CCGCAGCCGC	GACCTCCTCG
17521		AGACGGACCC				
17581		AGTACGGCGC				
17641		CCCCGGCTA				
17701		CCCGCCGACG				
17761	CCCGCACTGG	CTCCAGTCTC	CGTGAGGAGA	GTGGCGCGCG	ACGGACACAC	CCTGGTGCTG
17821	CCCAGGGCGC	GCTACCACCC	CAGCATCGTT	TAAAAGCCTG	TTGTGGTTCT	TGCAGATATG
17881	GCCCTCACTT	GCCGCCTCCG	TTTCCCGGTG	CCGGGATACC	GAGGAGGAAG	ATCGCGCCGC
17941		TGGCCGGCCG				
18001		GCCGACGCAT				
18061		GCGCCGTGCC				
18121	TGACAGACTT	GCAAACTTGC	AAATATGGAA	AAAAAAAAA	AACCCCAATA	AAAAGTCTAG
18181	ACTCTCACGC	TCGCTTGGTC	CTGTGACTAT	TTTGTAGAAT	GGAAGACATC	AACTTTGCGT
18241	CGCTGGCCCC	GCGTCACGGC	TCGCGCCCGT	TCCTGGGACA	CTGGAACGAT	ATCGGCACCA
18301	GCAACATGAG	CGGTGGCGCC	TTCAGTTGGG	GCTCTCTGTG	GAGCGGCATT	AAAAGTATCG
18361		TAAAAATTAC				
18421		GAAAGAGCAG				
		GGTGGACCTG				
18481						
18541		GCCGGTGGAG				
18601		GCGCCCGCGG				
18661		${\tt GTATGAGGAG}$				
18721	CCATGGCCAC	CGGGGTGGTG	GGCCGCCACA	CCCCCGCCAC	GCTGGACTTG	CCTCCGCCCG
18781	CCGATGTGCC	GCAGCAGCAG	AAGGCGGCAC	AGCCGGGCCC	GCCCGCGACC	GCCTCCCGTT
18841	CCTCCGCCGG	TCCTCTGCGC	CGCGCGGCCA	GCGGCCCCCG	CGGGGGGGTC	GCGAGGCACG
18901		GAGCACGCTG				
18961		CTGAATAGCT				
		CTGCTGAGTC				
19021						
19081		GACCCCATCG				
19141		GTACCTGAGC				
19201	TCAGCCTGAG	TAACAAGTTT	AGGAACCCCA	CGGTGGCGCC	CACGCACGAT	GTGACCACCG
19261	ACCGGTCTCA	GCGCCTGACG	CTGCGGTTCA	TTCCCGTGGA	CCGCGAGGAC	ACCGCGTACT
19321	CGTACAAGGC	GCGGTTCACC	CTGGCCGTGG	GCGACAACCG	CGTGCTGGAC	ATGGCCTCCA
19381	CCTACTTTGA	CATCCGCGGG	GTGCTGGACC	GGGGTCCCAC	TTTCAAGCCC	TACTCTGGCA
19441		CTCCCTGGCC				
19501		AGTTGAAGAA				
19561		AGCAGCTACC				
19621		TAAAGATGGT				
19681	CTATTTATGC	AGACCCTACA	TTCCAGCCCG	AACCCCAAAT	CGGGGAGTCC	CAGTGGAATG
19741	AGGCAGATGC	TACAGTCGCC	GGCGGTAGAG	TGCTAAAGAA	ATCTACTCCC	ATGAAACCAT
19801	GCTATGGTTC	CTATGCAAGA	CCCACAAATG	CTAATGGAGG	TCAGGGTGTA	CTAACGGCAA
19861	ATGCCCAGGG	ACAGCTAGAA	TCTCAGGTTG	AAATGCAATT	CTTTTCAACT	TCTGAAAACG
19921	CCCGTAACGA	GGCTAACAAC	ATTCAGCCCA	AATTGGTGCT	GTATAGTGAG	GATGTGCACA
19981		GGATACGCAC				
20041		TCAGCAGTCC				
		CATGTATTAC				
20101						
20161		TGCAGTGGTG				
20221		CATGGGTGAC				
20281	GTTATGACCC	AGATGTTAGA	ATTATTGAAA	ATCATGGAAC	TGAAGACGAG	CTCCCCAACT
20341	ATTGTTTCCC	TCTGGGTGGC	ATAGGGGTAA	CTGACACTTA	CCAGGCTGTT	AAAACCAACA
20401	ATGGCAATAA	CGGGGGCCAG	GTGACTTGGA	CAAAAGATGA	AACTTTTGCA	GATCGCAATG
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						TACATGGACA
20641						
20701		CTTCAACCAC				
20761						GCCATCAAGA
20821	ACCTCCTCCT	CCTGCCGGGC	TCCTACACCT	ACGAGTGGAA	CTTCAGGAAG	GATGTCAACA

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20881						ATCAAGTTCG
20941						TCCACGCTCG
21001						TCCGCCGCCA
21061						CCCTCGCGCA
21121		CTTCCGCGGC				ACCCCCTCCC
21181	TGGGCTCGGG	ATTCGACCCC	TACTACACCT	ACTCGGGCTC	TATTCCCTAC	CTGGACGGCA
21241	CCTTCTACCT	CAACCACACT	TTCAAGAAGG	TCTCGGTCAC	CTTCGACTCC	TCGGTCAGCT
21301	GGCCGGGCAA	CGACCGTCTG	CTCACCCCCA	ACGAGTTCGA	GATCAAGCGC	TCGGTCGACG
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21421						AAGGACAGGA
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22081					TGCGCCATCG	
22141					TGGAACCCGC	
22201					CTCAAGCAAA	
22261					TCGCCCGACC	
22321	CCTCGAAAAG	TCCACCCAGA	CCGTGCAGGG	GCCCGACTCG	GCCGCCTGCG	GTCTCTTCTG
22381		CTGCACGCCT			CCCATGGACC	
22441					AGCCCCCAGG	
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22561	CCGCCACAGC	GCACAGATCA	GGAGGGCCAC	CTCCTTCTGC	CACTTGCAAG	AGATGCAAGA
22621	AGGGTAATAA	CGATGTACAC	ACTTTTTTCT	CAATAAATGG	CATTTTTTT	TTATTTATAC
22681	AAGCTCTCTG	GGGTATTCAT	TTCCCACCAC	CACCACCCGC	CGTTGTCGCC	ATCTGGCTCT
22741	ATTTAGAAAT	CGAAAGGGTT	CTGCCGGGAG	TCGCCGTGCG	CCACGGGCAG	GGACACGTTG
22801					CCAGGCGAGG	
22861					TCATCAGGTC	
22921					AGTTGCGGTA	
22981					CCAGCACGCT	
23041					ACGGGGTCAT	
23101					AGTCGCAGCG	
23161					CGCGCATGAA	
					ACATGCCGCA	
23221					ACATGCCGCA	
23281					TGGCCTTGGA	
23341						
23401					CGATCACATG	
23461	ACCATGCTGC					
23521	CACAGCGCGC					
23581	TACCCCTGCA					
23641	TGCAGCCCGC					
23701					CCACGTGGTA	
23761	AGCGTGCGCG					
23821	TTCTTCACCA	TCACCGTGGC	CGCCGCCTCC	GCCGCGCTTT	CGCTTTCCGC	CCCGCTGTTC
23881	TCTTCCTCTT	CCTCCTCTTC	CTCGCCGCCG	CCCACTCGCA	GCCCCGCAC	CACGGGGTCG
23941	TCTTCCTGCA	GGCGCTGCAC	CTTGCGCTTG	CCGTTGCGCC	CCTGCTTGAT	GCGCACGGGC
24001	GGGTTGCTGA					
24061	ATGACCTCCG					
24121	CTGGGGGCGT					
24181	GGCGTGCGCG					
24241	AGGCGGGCCC					
24301	GGGGACGAGA					

24361	GTGGTTTCGC	GCTGGTCCTC	TTCCCGACTG	GCCATCTCCC	ACTGCTCCTT	CTCCTATAGG
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24541	ACCGAGACCA	CCGCCAGTAC		AGCGACGCAC		
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24661		TCGCCGCCTC				
24721		AGACAGCAGT				
24781			GCTGCTTAAG			
24841		AGGAGCGCTG		CTGGACGTGG		
24901	GAGCGGCACC	TCTTCGCGCC		CCCAAGCGCC		-
24961	CCCAACCCGC		CTACCCGGTC		CCGAGGTGCT	
25021		TCCAAAACTG				
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25141		TCTTCGAGGG				
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27121		CCCCGCAATG				
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27241	CCGCGGGCAA	GACAGCGGCA	GCAGCGGCCA	GGAGACCCGC	GGCAGCAGCG	GCGGGAGCGG
27301	TGGGCGCACT	GCGCCTCTCG	CCCAACGAAC	CCCTCTCGAC	CCGGGAGCTC	AGACACAGGA
27361	TCTTCCCCAC	TTTGTATGCC	ATCTTCCAAC	AGAGCAGAGG	CCAGGAGCAG	GAGCTGAAAA
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27601	CCGCCGCCCA	GCCCGCCCAG	CCGAGATGAG	CAAAGAGATT	CCCACGCCAT	ACATGTGGAG
27661	CTACCAGCCG	CAGATGGGAC	TCGCGGCGGG	AGCGGCCCAG	GACTACTCCA	CCCGCATGAA
27721	CTACATGAGC	GCGGGACCCC	ACATGATCTC	ACAGGTCAAC	GGGATCCGCG	CCCAGCGAAA
27781	CCAAATACTG	CTGGAACAGG	${\tt CGGCCATCAC}$	CGCCACGCCC	CGCCATAATC	TCAACCCCCG

27841	AAATTGGCCC	GCCGCCCTCG	TGTACCAGGA	AACCCCCTCC	GCCACCACCG	TACTACTTCC
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27961	TCGTCACGGG	GCGCGGCCGC	TCCGACCAGG	TATAAGACAC	CTGATGATCA	GAGGCCGAGG
28021	TATCCAGCTC	AACGACGAGT	CGGTGAGCTC	TTCGCTCGGT	CTCCGTCCGG	
28081	CCAGCTCGCC	GGATCCGGCC	GCTCTTCGTT	CACGCCCCGC	CAGGCGTACC	
28141		TCGGAGCCCC	GCTCCGGAGG			TGGAGGAGTT
	GACCTCGTCC				0-00	
28201	CGTGCCCTCG	GTCTACTTCA		GGGACCTCCC	GGACGCTACC	
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28501	CCTCCGTCCC	CTGCTAGTGG	AGCGGGAGCG	GGGTCCCTGT	GTCCTAACTA	TCGCCTGCAA
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29161	TCGGAATCAG	GTGACTTCTC	TGAAATCGGG	CTTGGTGTGC	TGCTTACTCT	
29221	TTCCTTATCA	TACTCAGCCT	TCTGTGCCTC		CCTGCTGCGC	
29281	ATCTACTGCT		GTGCAGGGGT		GATGAACAGG	
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35 581	ATGATTAGCA	GCTCTTCCCT	CGTCAGGATC	ATATCCCAAG	GAATAACCCA	TTCTTGAATC
35 641	AACGTAAAAC	CCACACAGCA	GGGAAGGCCT	CGCACATAAC	TCACGTTGTG	CATGGTCAGC
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36061				GACAGGAGGA		
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	AGGTCTGAAC	CCACCACTCA	CCCCN N N TCC	CCACCACCAA	CCACAMCCAC	ATAATCAGAC
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37681	GCGCCGCCCA	TCTCATTATC	ATATTGGCTT	CAATCCAAAA	TAAGGTATAT	TATTGATGAT
37741	G (SEQ ID	NO: 1)			•	

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721	ATCTGGAGGT	' GGATGTGCCC	GAGAACGACC	CCAACGAGGA	GGCGGTGAAT	GATTTGTTTA
781	GCGATGCCGC	GCTGCTGGCC	GCCGAGCAGG	CTAATACGGA	CTCTGGCTCA	GACAGCGATT
841	CCTCTCTCCA	. TACCCCGAGA	CCCGGCAGAG	GTGAGAAAAA	GATCCCCGAG	CTTAAAGGGG
901	AAGAGCTCGA	. CCTGCGCTGC	TATGAGGAAT	GCTTGCCTCC	GAGCGATGAT	GAGGAGGACG
961	AGGAGGCGAT	' TCGAGCTGCA	GCGAGCGAGG	GAGTGAAAGC	TGCGGGCGAG	AGCTTTAGCC
1021	TGGACTGTCC	TACTCTGCCC	GGACACGGCT	GTAAGTCTTG	TGAATTTCAT	CGCATGAATA
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1561	CAGGTGCAGA	CCTGTGTGGT	CAGTTCAGAG	CAGGACTCAT	GGAGATCTGG	ACGGTCTTGG
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1681	GGAGATTTTG	CTTCGGTGGG	GCTCTAGCTA	AGCTAGTCTA	TAGGGCCAAA	CAGGATTATA
1741	AGGATCAATT	TGAGGATATT	TTGAGAGAGT	GTCCTAGTAT	TTTTGACTCT	CTCAACTTGC
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2101	AGCAAGAGGA	GGAGGAGGAG	GAGGACCGAG	AAGAGAACCC	GAGAGCCGGT	CTGGACCCTC
2161	CGGTGGCGGA	GGAGGAGGAG	TAGCTGACTT	GTTTCCCGAG	CTGCGCCGGG	TGCTGACTAG
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2281	AACTGAACTG	ACTGTCAGTC	TGATGAGCCG	CAGGCGCCCA	GAATCGGTGT	GGTGGCATGA
2341	GGTTCAGTCG	CAGGGGATAG	ATGAGGTCTC	GGTAATGCAT	GAGAAATATT	CCCTAGAACA
2401	AGTCAAGACT	TGTTGGTTGG	AGCCCGAGGA	TGATTGGGAG	GTAGCCATCA	GGAATTATCC
2461	CAAGCTGGCT	CTGAGGCCAG	ACAAGAAGTA	CAAGATTACC	AAACTGATTA	ATATCAGAAA
2521	TTCCTGCTAC	ATTTCGGGGA	ATGGGGCCGA	GGTGGAGATC	AGTACCCAGG	AGAGGGTGGC
2581	CTTCAGATGT	TGTATGATGA	ATATGTACCC	GGGGGTGGTG	GGCATGGAGG	GAGTCACCTT
2641	TATGAACGCG	AGGTTTAGGG	GTGATGGGTA	TAATGGGGTG	GTCTTTATGG	CCAACACCAA
2701	GCTGACAGTG	CACGGATGCT	CCTTCTTTGG	CTTCAATAAC	ATGTGCATCG	AGGCCTGGGG
2761	CAGTGTTTCA	GTGAGGGGAT	GCAGCTTTTC	AGCCAACTGG	ATGGGGGTCG	TGGGCAGAAC
2821	CAAGAGCGTG	GTGTCAGTGA	AGAAATGCCT	GTTCGAGAGG	TGCCACCTGG	GGGTGATGAG
2881	CGAGGGCGAA	GCCAAAGTCA	AACACTGCGC	CTCTACCGAG	ACGGGCTGCT	ТТСТСАТСАТ
2941	CAAGGGCAAT	GCCAAAGTCA	AGCATAACAT	GATTTGTGGG	GCCTCGGATG	AGCGCGGCTA
3001	CCAGATGCTG	ACCTGTGCCG	GTGGGAACAG	CCATATGCTG	GCCACCGTGC	ATGTGGCCTC
3061	GCACCCCCCC	AAGACATGGC	CCGAGTTCGA	GCACAACGTC	ATGACCCGCT	GCAATGTGCA
3121	CCTGGGGTCC	CGCCGAGGCA	TGTTCATGCC	CTACCAGTGC	AACATGCAAT	TTGTGAAGGT
3181	GCTGCTGGAG	CCCGATGCCA	TGTCCAGAGT	GAGCCTGGTG	GGGGTGTTTG .	ACATGAATGT
3241	GGAGGTGTGG	AAAATTCTGA	GATATGATGA	ATCCAAGACC	AGGTGCCGGG	CCTGCGAATG
3301	CGGAGGCAAG	CACGCCAGGC	TTCAGCCCGT	GTGTGTGGAG	GTGACGGAGG	ACCTGCGACC
3361	CGATCATTTG	GTGTTGTCCT	GCAACGGGAC	GGAGTTCGGC	TCCAGCGGGG	AAGAATCTGA
			_			

FIG. 6A

			177101			
3421		TAGTGTTTGG				
3481		TCTGCGCAGC				
3541		GACGGGGCGT				
3601		CGGCCGGCCC				
3661	TGAGCTCCTC	GTCCGTGGAC	GCAGCTGCCG	CCGCAGCTGC	TGCTTCCGCC	GCCAGCGCCG
3721	TGCGCGGAAT	GGCCTTGGGC	GCCGGCTACT	ACAGCTCTCT	GGTGGCCAAC	TCGAGTTCCA
3781	CCAATAATCC	CGCCAGCCTG	AACGAGGAGA	AGCTGCTGCT	GCTGATGGCC	CAGCTCGAGG
3841	CCCTGACCCA	GCGCCTGGGC	GAGCTGACCC	AGCAGGTGGC	TCAGCTGCAG	GCGGAGACGC
3901	GGGCCGCGT					AACGGAGACG
3961	GTTGTTGATT	TTAACACAGA	GTCTTGATCT	TTATTTGATT	TTTCGCGCGC	GGTAGGCCCT
4021		TCTCGATCAT				
4081		TTGAGGTACA				
4141		TGCTCGGGGG				
4201	GTGGTGCTGC	ACGATGTCCT	TGAGGAGGAG	ACTGATGGCC	ACGGGCAGCC	CCTTGGTGTA
4261		AACCTGTTGA				
4321	GGCCTGGATC	TTGAGATTGG	CGATGTTCCC	GCCCAGATCC	CGCCGGGGGT	TCATGTTGTG
4381	CAGGACCACC	AGCACGGTGT	ATCCGGTGCA	CTTGGGGAAT	TTGTCATGCA	ACTTGGAAGG
4441	GAAGGCGTGA	AAGAATTTGG	AGACGCCCTT	GTGACCGCCC	AGGTTTTCCA	TGCACTCATC
4501	CATGATGATG	GCGATGGGCC	CGTGGGCGGC	GGCCTGGGCA	AAGACGTTTC	GGGGGTCGGA
4561		TTGTGGTCCT				
4621	GAGAGTGCCC	GACTGGGGGA	CGAAGGTGCC	CTCGATCCCG	GGGGCGTAGT	TCCCCTCGCA
4681	GATCTGCATC	TCCCAGGCCT	TGAGCTCGGA	GGGGGGGATC	ATGTCCACCT	GCGGGGCGAT
4741		GTTTCCGGGG				
4801		CCGCAGCCGG				
4861		AGACAGCTGC				
4921		ATGTTCTCGC				
4981	GAGCTCTTGC	AGCGAGGCGA	AGTTTTTCAG	CGGCTTGAGC	CCGTCGGCCA	TGGGCATTTT
5041	GGAGAGGGTC	TGTTGCAAGA	GTTCCAGACG	GTCCCAGAGC	TCGGTGATGT	GCTCTAGGGC
5101	ATCTCGATCC	AGCAGACCTC	CTCGTTTCGC	GGGTTGGGGC	GACTGCGGGA	GTAGGGCACC
5161		CGTCCAGCGA				
5221	AGCGTGGTCT	CCGTCACGGT	GAAGGGGTGC	GCGCCGGGCT	GGGCGCTTGC	GAGGGTGCGC
5281		TCCGGCTGGT				
5341		GCATGAGTTC				
5401		AAGTGTGTCC				
5461		AGACGGACTC				
5521		CGAGCCAGGT				
5581	TGCTTTTTGA	TGCGTTTCTT	ACCTCTGGTC	TCCATGAGCT	CGTGTCCCCG	CTGGGTGACA
5641		CCGTGTCCCC				
5701	CGGTCCTCGT	CGTAGAGGAA	CCCCGCCCAC	TCCGAGACGA	AGGCCCGGGT	CCAGGCCAGC
5761		CCACGTGGGA				
5821	AGGGTATGCA	AGCACATGTC	CCCCTCGTCC	ACATCCAGGA	AGGTGATTGG	CTTGTAAGTG
5881	TAGGCCACGT	GACCGGGGGT	CCCGGCCGGG	GGGGTATAAA	AGGGGGCGGG	CCCCTGCTCG
5941	TCCTCACTGT	CTTCCGGATC	GCTGTCCAGG	AGCGCCAGCT	GTTGGGGTAG	GTATTCCCTC
6001	TCGAAGGCGG	GCATGACCTC	GGCACTCAGG	TTGTCAGTTT	CTAGAAACGA	GGAGGATTTG
6061	ATATTGACGG	TGCCGTTGGA	GACGCCTTTC	ATGAGCCCCT	CGTCCATCTG	GTCAGAAAAG
6121	ACGATCTTTT	TGTTGTCGAG	CTTGGTGGCG	AAGGAGCCGT	AGAGGGCGTT	GGAGAGGAGC
6181	TTGGCGATGG	AGCGCATGGT	CTGGTTCTTT	TCCTTGTCGG	CGCGCTCCTT	GGCGGCGATG
6241		CGTACTCGCG				
6301	TCGGGCACGA	TTCTGACCCG	CCAGCCGCGG	TTGTGCAGGG	TGATGAGGTC	CACGCTGGTG
6361	GCCACCTCGC	CGCGCAGGGG	CTCGTTGGTC	CAGCAGAGGC	GCCCGCCCTT	GCGCGAGCAG
6421	AAGGGGGGCA	GCGGGTCCAG	CATGAGCTCG	TCTGGGGGGT	CGGCGTCCAC	GGTGAAGATG
6481	CCGGGCAGGA	GCTCGGGGTC	GAAGTAGCTG	ATGGAAGTGG	CCAGATCGTC	CAGGGAAGCT
6541	TGCCAGTCGC	GCACGGCCAG	CGCGCGCTCG	TAGGGGCTGA	GGGGCGTGCC	CCAGGGCATG
6601	GGGTGCGTGA	GCGCGGAGGC	GTACATGCCG	CAGATGTCGT	AGACGTAGAG	GGGCTCCTCG
6661	AGGATGCCGA	TGTAGGTGGG	GTAGCAGCGC	CCCCGCGGA	TGCTGGCGCG	CACGTAGTCG
6721	TACAGCTCGT	GCGAGGGCGC	GAGGAGCCCC	GTGCCGAGAT	TGGAGCGCTG	CGGCTTTTCG
6781	GCGCGGTAGA	CGATCTGGCG	GAAGATGGCG	TGGGAGTTGG	AGGAGATGGT	GGGCCTCTGG

6841	AAGATGTTGA	AGTGGGCGTG	GGGCAGGCCG	ACCGAGTCCC	TGATGAAGTG	GGCGTAGGAG
6901	TCCTGCAGCT	' TGGCGACGAG	CTCGGCGGTG	ACGAGGACGI	CCAGGGCGCA	GTAGTCGAGG
6961	GTCTCTTGGA	TGATGTCATA	CTTGAGCTGG	CCCTTCTGCT	TCCACAGCTC	GCGGTTGAGA
7021	AGGAACTCTT	CGCGGTCCTT	CCAGTACTCT	TCGAGGGGGA	ACCCGTCCTG	ATCGGCACGG
7081	TAAGAGCCCA	CCATGTAGAA	CTGGTTGACG	GCCTTGTAGG	CGCAGCAGCC	CTTCTCCACG
7141	GGGAGGGCGT	AAGCTTGCGC	GGCCTTGCGC	AGGGAGGTGT	GGGTGAGGGC	GAAGGTGTCG
7201	CGCACCATGA	CCTTGAGGAA	CTGGTGCTTG	AAGTCGAGGT	CGTCGCAGCC	GCCCTGCTCC
7261	CAGAGTTGGA	AGTCCGTGCG	CTTCTTGTAG	GCGGGGTTGG	GCAAAGCGAA	AGTAACATCG
7321	TTGAAGAGGA	TCTTGCCCGC	GCGGGGCATG	AAGTTGCGAG	TGATGCGGAA	AGGCTGGGGC
7381						GCCGTTGATG
7441	TTGTGCCCGA	CGATGTAGAG	TTCCACGAAT	CGCGGGCGGC	CCTTGACGTG	GGGCAGCTTC
7501	TTGAGCTCGT	CGTAGGTGAG	CTCGGCGGGG	TCGCTGAGCC	CGTGCTGTTC	GAGGGCCCAG
7561	TCGGCGACGT	GGGGGTTGGC	GCTGAGGAAG	GAAGTCCAGA	GATCCACGGC	CAGGGGGGTC
7621	TGCAAGCGGT	CCCGGTACTG	ACGGAACTGC	TGGCCCACGG	CCATTTTTC	GGGGGTGACG
7681	CAGTAGAAGG	TGCGGGGGTC	GCCGTGCCAG	CGGTCCCACT	TGAGCTGGAG	GGCGAGGTCG
7741	TGGGCGAGCT	CGACGAGCGG	TGGGTCCCCG	GAGAGTTTCA	TGACCAGCAT	GAAGGGGACG
7801	AGCTGCTTGC	CGAAGGACCC	CATCCAGGTG	TAGGTTTCCA	CATCGTAGGT	GAGGAAGAGC
7861	CTTTCGGTGC	GAGGATGCGA	GCCGATGGGG	AAGAACTGGA	TCTCCTGCCA	CCAGTTGGAG
7921	GAATGGCTGT	TGATGTGATG	GAAGTAGAAA	TGCCGACGGC	GCGCCGAGCA	CTCGTGCTTG
7981	TGTTTATACA	AGCGTCCGCA	GTGCTCGCAA	CGCTGCACGG	GATGCACGTG	CTGCACGAGC
8041	TGTACCTGAG	TTCCTTTGAC	GAGGAATTTC	AGTGGGCAGT	GGAGCGCTGG	CGGCTGCATC
8101	TGGTGCTGTA	CTACGTCCTG	GCCATCGGCG	TGGCCATCGT	CTGCCTCGAT	GGTGGTCATG
8161	CTGACGAGGC	CGCGCGGGAG	GCAGGTCCAG	ACCTCGGCTC	GGACGGGTCG	GAGAGCGAGG
8221	ACGAGGGCGC	GCAGGCCGGA	GCTGTCCAGG	GTCCTGAGAC	GCTGCGGAGT	CAGGTCAGTG
8281	GGCAGCGGCG	GCGCGCGGTT	GACTTGCAGG	AGCTTTTCCA	GGGCGCGCGG	CACCTCCACA
8341	TGGTACTTGA	TCTCCACGGC	GCCGTTGGTG	GCGACGTCCA	CGGCTTGCAG	GGTCCCGTGC
8401	- CCCTGGGGCG	CCACCACCGT	GCCCCGTTTC	TTCTTGGGCG	CTGGTTCCAT	GCCGGTCAGA
8461.	AGCGGCGGCG	AGGACGCGCG	CCGGGCGGCA	GGGGCGGCTC	GGGGCCCGGA	GGCAGGGGGG
8521	GCAGGGGCAC	GTCGGCGCCG	CGCGCGGGCA	GGTTCTGGTA	CTGCGCCCGG	AGAAGACTCG
85,81	CGTGAGCGAC	GACGCGACGG	TTGACGTCCT	GGATCTGACG	ССТСТССССССС	AAGGCCACGG
8641	GACCCGTGAG	TTTGAACCTG	AAAGAGAGTT	CGACAGAATC	AATCTCGGTA	TCGTTGACGG
8701	CGGCCTGCCG	CAGGATCTCT	TGCACGTCGC	CCGAGTTGTC	CTGGTAGGCG	ATCTCGGTCA
8761	·TGAACTGCTC	GATCTCCTCC	TCCTGAAGGT	CTCCGCGGCC	GGCGCGCTCG	ACCCTCCCC
8821	CGAGGTCGTT	GGAGATGCGG	CCCATGAGCT	GCGAGAAGGC	GTTCATGCCG	GCCTCGTTCC
8881	AGACGCGGCT	GTAGACCACG	GCTCCGTCGG	GGTCGCGCGC	GCGCATGACC	ACCTCGTTCC
8941	GGTTGAGCTC	GACGTGGCGC	GTGAAGACCG	CGTAGTTGCA	GAGGCGCTGG	TACACCTACT
9001	TGAGCGTGGT	GGCGATGTGC	TCGGTGACGA	AGAAGTACAT	GATCCAGCGG	CGGAGCGGCA
9061	TCTCGCTGAC	GTCGCCCAGG	GCTTCCAAGC	GCTCCATGGC	CTCGTAGAAG	TCCACGCCA
9121	AGTTGAAAAA	CTGGGAGTTG	CGCGCCGAGA	CGGTCAACTC	CTCCTCCAGA	AGACGGATGA
9181	GCTCGGCGAT	GGTGGCGCGC	ACCTCGCGCT	CGAAGGCCCC	GGGGGGCTCC	TCTTCTTCCA
9241	TCTCCTCCTC	CTCTTCCTCC	TCCACTAACA	TCTCTTCTAC	TTCCTCCTCA	GGAGGCGGTG
9301			CGCCGGCGGC			
9361			CGCATGGTCT			
9421	GCAGCGTGAA	GACGCCGCCG	CGCATCTCCA	GGTGGCCGCC-	GGGGGGGGTCT	CCGTTGGGCA
9481	GGGAGAGGGC	GCTGACGATG	CATCTTATCA	ATTGGCCCGT	AGGGACTCCG	CCCAACCACC
9541	TGAGCGTCTC	GAGATCCACG	GGATCCGAAA	ACCGCTGAAC	GAAGGCTTCG	AGCCAGTCGC
9601	AGTCGCAAGG	TAGGCTGAGC	CCGGTTTCTT	CGGGTATTTG	GTCGGGAGGC	GGGCGGGCGA
9661	TGCTGCTGGT	GATGAAGTTG	AAGTAGGCGG	TCCTGAGACG	GCGGATGGTG	GCGAGGAGCA
9721	CCAGGTCCTT	GGGCCCGGCT	TGCTGGATGC	GCAGACGGTC	GGCCATGCCC	CACCCCTCCT
9781	CCTGACACCT	GGCGAGGTCC	TTGTAGTAGT	CCTGCATGAG	CCGCTCCACG	GGCACCTCCT
9841	CCTCGCCCGC	GCGGCCGTGC	ATGCGCGTGA	GCCCGAACCC	GCGCTGCGGC	TGGACGAGCG
9901	CCAGGTCGGC	GACGACGCGC	TCGGCGAGGA	TGGCCTGCTG	GATCTGGGTG	ACCCTCCTCT
9961	GGAAGTCGTC	GAAGTCGACG	AAGCGGTGGT	AGGCTCCGGT	GTTGATGGTG	TATGACCACT
10021	TGGCCATGAC	GGACCAGTTG	ACGGTCTGGT	GGCCGGGGCG	CACGAGCTCG	TGGTACTTCA
10081	GGCGCGAGTA	GGCGCGCGTG	TCGAAGATGT	AGTCGTTGCA	GGTGCGCACG	AGGTACTGG
10141	ATCCGACGAG	GAAGTGCGGC	GGCGGCTGGC	GGTAGAGCGG	CCATCGCTCG	GTGGCGGGG
10201	CGCCGGGCGC	GAGGTCCTCG	AGCATGAGGC	GGTGGTAGCC	GTAGATGTAC	CTGGACATCC

FIG. 6C

10261	AGGTGATGCC	GGCGGCGGTG	GTGGAGGCGC	GCGGGAACTC	GCGGACGCGG	TTCCAGATGT
10321			TTCATGGTGG			
10381			AAAAACGAAA			
10441			CTGCGCGTGT			
10501	GCCGCAGCTA	ACGTGGTACT	GGCACTCCCG	TCTCGACCCA	AGCCTGCACA	AAACCTCCAG
10561	GATACGGAGG	CGGGTCGTTT	TGCAACTTTT	TGAGGCCGGA	AATGAAACTA	GTAAGCGCGA
10621	AAAGCGGCCG	ACCGCGATGG	CTCGCTGCCG	TAGTCTGGAG	AAGAATCGCC	AGGGTTGCGT
10681			GGCCGGCCGG			
10741	CGTCGTTTCC	AAGACCCCTA	GCCAGCCGAC	TTCTCCAGTT	ACGGAGCGAG	CCCCTCTTTT
10801	GTTTTGTTTG	TTTTTGCCAG	ATGCATCCCG	TACTGCGGCA	GATGCGCCCC	CACCACCCTC
10861	CACCGCAACA	ACAGCCCACT	CCACAGCCGG	CGCTTCTGCC	CCCGCCCCAG	CAGCAGCAAC
10921	TTCCAGCCAC	GACCGCCGCG	GCCGCCGTGA	GCGGGGCTGG	ACAGACTTCT	CAGTATGACC
10981	ACCTGGCCTT	GGAAGAGGGC	GAGGGGCTGG	CGCGCCTGGG	GGCGTCGTCG	CCGCAGCGGC
11041	ACCCGCGCGT	GCAGATGAAA	CGGGACGCTC	GCGAGGCCTA	CGTGCCCAAG	CAGAACCTGT
11101	TCAGAGACAG	GAGCGGCGAG	GAGCCCGAGG	AGATGCGCGC	GGCCCGGTTC	CACCCCCCCC
11161	GGGAGCTGCG	GCGCGGCCTG	GACCGAAAGA	GGGTGCTGAG	GGACGAGGAT	TTCCACCCC
11221	ACGAGCTGAC	GGGGATCAGC	CCCGCGCGCG	CGCACGTGGC	CCCCCCCAAC	CTCCTCACCC
11281	CGTACGAGCA	GACCGTGAAG	GAGGAGAGCA	ACTTCCAAAA	אַתיירים אַר	AACCACCTCC
11341			GAGGTGACCC			
11401			ACCAGCAAGC			
11461	AGCACAGTCG	GGACAACGAG	GCGTTCAGGG	AGGCGCTGCT	CAATATCACC	CACCCCACC
11521	GCCGCTGGCT	CCTGGACCTG	GTGAACATTC	TGCAGAGCAT	CCTCCTCCAC	GAGCCCGAGG
11581			GCGGCCATCA			
11641			ACCCCGTACG			
11701			CTGAAAGTGC			
11761	GCAACGACAG	GATGCACCGC	GCGGTGAGCG	CCACCCCCCC	CCCCCACCTC	ACCCA CCA CC
	- AGCTGATGCA	CAGCCTGCAG	CCCCCCCTCA	CCGGGGGGGG	CACCCACCCC	CACACCOACCAGG
11881 .	TTGACATGGG	CCCCGACCTG	CGCTGCCAGC	CCAGCCGCG	CCCCTTCCAA	CCTCCCCCCC
11941	GTTCCCCCTA	CGTGGAGGAG	GTGGACGATG	ACCACCACCA	CCCCCACTAC	GCIGCCGGCG
	GATGGCGCGA	CCCTATTTTT	CCTACATCCA	CCNACACCCN	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CIGGAAGACI
12061	GATGCGGGCG	GCGCTGCAGA	GCCAGCCGTC	CCCCATTAAC	TCCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CIGHICCCGC
12121	GGCCATGCAA	CGCATCATGG	CGCTGACGAC	CCCCAATCCC	CAACCCTTTA	CACACCACCCA
12181	TCAGGCCAAC	CGGCTCTCGG	CCATCCTGGA	GGCCGTGGTG	CCCTCCCCC	CCAACCCCAC
12241	GCACGAGAAG	GTGCTGGCCA	TCGTGAACGC	CCTCCTCCAC	AACAACCCCA	TCCCCCCC
12301			ACGCGCTGCT			
12361			GCATGGTGAC			
12421	GCGGTTCCAC	CGCGAGTCGA	ACCTGGGCTC	CATCCTCCCC	CTCAACCCCT	TOCTO A CON C
12481			GGGGCCAGGA			
12541			CCCAGAGCGA			
12601	CCAGACCAGT	CGCCAGGGCT	TGCAGACCGT	GAACCTCACC	CACCCTTTCA	ACIACITCII
12661	GGGACTGTGG	GGCGTGCAGG	CCCCGGTCGG	GCACCCCCCC	ACCCTCTCTCCA	AGAACTTGCA
12721			TGCTGCTGGT			
12781			ACCTGCTTAA			
12841	CGTGGACGAG	CAGACCTACC	ACCACATCAC	CCIGIACCGC	CCCCCCCTCC	CCCACCACCA
12901	CCCGGGCAAC	CTCCACCCA	CCCTCAACTT	CCACGIGAGC	A A C C C C T G G	ACA A CAMCCC
12961	GCCCCAGTAC	CCCCTCACCA	CCCIGAACII	CCTGCTGACC	CCCMACCMCC	AGAAGATCCC
13021	GGGGCTGTTC	CTCATCCACC	ACCCCCCCCAC	GCGCATCCTG	CCCCTACGTGC	AGCAGAGCGT
13081	CAACATGGAG					
13141	CTTGCATCGG	CCCAGCAIGI	TO A CTCCCA	CCGCCCGTTC	ATCAATAAGC	TGATGGACTA
13201	CTGGCTCCCG	CCCCCCCCC	TGMACICGGA	CTACTTTACC	AACGCCATCT	TGAACCCGCA
13261	GTTCCTGTGG	CATCACCTCC	ACACCACCCO	COMCINICAC	COCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCAACGACGG
13321	GAAGAAAGAG	GGCGGGGACG	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GIICICGCCG	TCCCCTCCCCCA	CCACCETGTG
13381	CGCGGCGGTG	CCCGGGGGACC	GGCGGCCGTC	CICGGCGCIG	TCCGGTCGCG	CGGGTGCTGC
13441	GCGCAGCAGC	CACCTAGGCCG	CCAGCCCCTT	CCCGAGCCIG	CCCTTTTCCCC	TGAACAGCGT
13501	CAACCAGCAGC	THE	GGC I GACGCG	GCCGCGCCTG	CIGGGCGAGG	AGGAGTACCT
13561	GAACGACTCC CCTGGTGGAC	TIGITGAGGC	CCGAGCGCGA	CMA CCCCCA C	CAATAACG	AGATAGAGAG
13621	AGCTAGCAGC	VGC VCCCCCC	GC T GGWWGWC	GIACGCGCAC	CAGCACAGGG	ACGAGCCGCG
	JUNDAL DULL	どうじょうしんしゃん	CCCGIAGACG	CCAGCGGCAC	CACAGGCAGC	GGGACT, GGT,

FIG. 6D

			20/101			
13681	GTGGGACGAT	GAGGATTCCG	CCGACGACAG	CAGCGTGTTG	GACTTGGGTG	GGAGTGGTGG
13741			TGCGCCCCG			
13801			AAGGCCATGG			
13861	TAGTAGTATG	ATGAGGCGCG	TGTACCCGGA	GGGTCCTCCT	CCCTCGTACG	AGAGCGTGAT
13921	GCAGCAGGCG	GTGGCGGCGG	CGATGCAGCC	CCCGCTGGAG	GCGCCTTACG	TGCCCCCGCG
13981	GTACCTGGCG	CCTACGGAGG	GGCGGAACAG	CATTCGTTAC	TCGGAGCTGG	CACCCTTGTA
14041	CGATACCACC	CGGTTGTACC	TGGTGGACAA	CAAGTCGGCG	GACATCGCCT	CGCTGAACTA
14101	CCAGAACGAC	CACAGCAACT	TCCTGACCAC	CGTGGTGCAG	AACAACGATT	TCACCCCCAC
14161	GGAGGCCAGC	ACCCAGACCA	TCAACTTTGA	CGAGCGCTCG	CGGTGGGGCG	GCCAGCTGAA
14221	AACCATCATG	CACACCAACA	TGCCCAACGT	GAACGAGTTC	ATGTACAGCA	ACAAGTTCAA
14281	GGCGCGGGTC	ATGGTCTCGC	GCAAGACCCC	CAACGGGGTC	GCGGTAGGGG	ATGATTATGA
14341	TGGTAGTCAG	GACGAGCTGA	CCTACGAGTG	GGTGGAGTTT	GAGCTGCCCG	AGGGCAACTT
14401			ATCTGATGAA			
14461			TGGAGAGCGA			
14521	CCGGCTGGGC	TGGGACCCCG	TGACCGAGCT	GGTGATGCCG	GGCGTGTACA	CCAACGAGGC
14581			TGCTGCCCGG			
14641	CAGCAACCTG	CTGGGCATCC	GCAAGCGGCA	GCCCTTCCAG	GAGGGCTTCC	AGATCCTGTA
14701	CGAGGACCTG	GAGGGGGGCA	ACATCCCCGC	GCTCTTGGAT	GTCGAAGCCT	ATGAAGAAAG
14761	TAAGGAAAAA	GCAGAGGCTG	AGGCAACTGC	AGCCGTGGCT	ACTGCCGCTG	TCACCGATGC
14821	AGATGCAGCT	ACTACCAGGG	GCGATACATT	CGCCACTGTG	GCTGAAGAAG	CAGCCGCCGT
14881			AAAGTAAGAT			
14941			TATCGGATGG			
15001	GGCCTACAAC	TACGGCGACC	CCGAGAAGGG	CGTGCGCTCC	TGGACGCTGC	TCACCACCTC
15061	GGACGTCACC	TGCGGCGTGG	AGCAAGTCTA	CTGGTCGCTG	CCCGACATGA	TGCAAGACCC
15121	GGTCACCTTC	CGCTCCACGC	GTCAAGTTAG	CAACTACCCG	GTGGTGGGCG	CCGAGCTCCT
15181	GCCCGTCTAC	TCCAAGAGCT	TCTTCAACGA	GCAGGCCGTC	TACTCGCAGC	AGCTGCGCGC
15241.	CTTCACCTCG	CTCACGCACG	TCTTCAACCG	CTTCCCCGAG	AACCAGATCC	TCGTCCGCCC
15301	GCCCGCGCCC	ACCATTACCA	CCGTCAGTGA	AAACGTTCCT	GCTCTCACAG	ATCACGGGAC
15361	CCTGCCGCTG	CGCAGCAGTA	TCCGGGGAGT	CCAGCGCGTG	ACCGTCACTG	ACGCCAGACG
15421			ACAAGGCCCT			
15481			CCATTCTCAT			
15541			ACGGAGGCGC			
15601	CGTGCGCGGG	CACTTCCGCG	CTCCCTGGGG	CGCCCTCAAG	GGCCGCGTGC	GCTCGCGCAC
15661	CACCGTCGAC	GACGTGATCG	ACCAGGTGGT	GGCCGACGCG	CGCAACTACA	CGCCCGCCGC
15721	CGCGCCCGTC		ACGCCGTCAT			
15781	CGCCCGCGCC	AAGAGCCGGC	GGCGGCGCAT	CGCCCGGCGG	CACCGGAGCA	CCCCCCCCAT
15841	GCGCGCGGCG	CGAGCCTTGC	TGCGCAGGGC	CAGGCGCACG	GGACGCAGGG	CCATGCTCAG
15901	GGCGGCCAGA	CGCGCGGCCT	CTGGCAGCAG	·CAGCGCCGGC	AGGACCCGCA	GACGCGCGGC
15961	CACGGCGGCG	GCGGCGGCCA	TCGCCAGCAT	GTCCCGCCCG	CGGCGCGGCA	ACGTGTACTG
16021	GGTGCGCGAC	GCCGCCACCG	GTGTGCGCGT	GCCCGTGCGC	ACCCGCCCC	CTCGCACTTG
16081	AAGATGCTGA	CTTCGCGATG	TTGATGTGTC	CCAGCGGCGA	GGAGGATGTC	CAAGCGCAAA
16141	TTCAAGGAAG	AGATGCTCCA	GGTCATCGCG	CCTGAGATCT	ACGGCCCCGC	GGCGGCGGTG
16201	AAGGAGGAAA	GAAAGCCCCG	CAAACTGAAG	CGGGTCAAAA	AGGACAAAA	GGAGGAGGAA
16261	GATGTGGACG	GACTGGTGGA	GTTTGTGCGC	GAGTTCGCCC	CCCGGCGGCG	CGTGCAGTGG
16321	CGCGGGCGGA	AAGTGAAACC	GGTGCTGCGA	CCCGGCACCA	CCGTGGTCTT	CACGCCCGGC
16381	GAGCGTTCCG	GCTCCGCCTC	CAAGCGCTCC	TACGACGAGG	TGTACGGGGA	CGAGGACATC
16441	CTCGAGCAGG	CGGCCGAGCG	TCTGGGCGAG	TTTGCTTACG	GCAAGCGCAG	CCGCCCCGCG
16501	CCCTTGAAAG	AGGAGGCGGT	GTCCATCCCG	CTGGACCACG	GCAACCCCAC	GCCGAGTCTG
16561	AAGCCGGTGA	CCCTGCAGCA	GGTGCTGCCG	AGCGCGGCGC	CGCGCCGGGG	CTTCAAGCGC
16621	GAGGGCGGCG	AGGATCTGTA	CCCGACCATG	CAGCTGATGG	TGCCCAAGCG	CCAGAAGCTG
16681	GAGGACGTGC	TGGAGCACAT	GAAGGTGGAC	CCCGAGGTGC	AGCCCGAGGT	CAAGGTGCGG
16741	CCCATCAAGC	AGGTGGCCCC	GGGCCTGGGC	GTGCAGACCG	TGGACATCAA	GATCCCCACG
16801	GAGCCCATGG	AAACGCAGAC	CGAGCCCGTG	AAGCCCAGCA	CCAGCACCAT	GGAGGTGCAG
16861	ACGGATCCCT	GGATGCCGGC	GCCGGCTTCC	ACCACCACCA	CTCGCCGAAG	ACGCAACTAC
	GGCGCGGCCA	GCCTGCTGAT	GCCCAACTAC	GCGCTGCATC	CTTCCATCAT	CCCCACGCCG
16981	GGCTACCGCG	GCACGCGCTT	CTACCGCGGC	TACAGCAGCC	GCCGCAAGAC	CACCACCCCC
17041	CGCCGCCGTC	GTCGCACCCG	CCGCAGCAGC	ACCGCGACTT	CCGCCGCCTT	GGTGCGGAGA
						COLOCUCAGA

			21/101			
17101	GTGTACCGCA	GCGGGCGCGA	GCCTCTGACC	CTGCCGCGCG	CGCGCTACCA	CCCGAGCATC
17161	GCCATTTAAC	TCTGCCGTCG	CCTCCTACTI	' GCAGATATGO	CCCTCACATG	CCGCCTCCGC
17221	GTCCCCATTA	CGGGCTACCG	AGGAAGAAAG	CCGCGCCGTA	GAAGGCTGAC	GGGGAACGGG
17281	CTGCGTCGCC	ATCACCACCG	GCGGCGGCGC	GCCATCAGCA	AGCGGTTGGG	GGGAGGCTTC
17341	CTGCCCGCGC	TGATCCCCAT	CATCGCCGCG	GCGATCGGGG	CGATCCCCGG	CATAGCTTCC
17401	GTGGCGGTGC	AGGCCTCTCA	. GCGCCACTGA	GACACAGCTT	GGAAAATTTG	TAATAAAAA
17461	TGGACTGACG	CTCCTGGTCC	TGTGATGTGT	GTTTTTAGAT	GGAAGACATC	AATTTTTCGT
17521	CCCTGGCACC	GCGACACGGC	ACGCGGCCGT	TTATGGGCAC	CTGGAGCGAC	ATCGGCAACA
17581	GCCAACTGAA	CGGGGGCGCC	TTCAATTGGA	. GCAGTCTCTG	GAGCGGGCTT	AAGAATTTCG
17641	GGTCCACGCT	CAAAACCTAT	GGCAACAAGG	CGTGGAACAG	CAGCACAGGG	CAGGCGCTGA
17701	GGGAAAAGCT	GAAAGAGCAG	AACTTCCAGC	AGAAGGTGGT	CGATGGCCTG	GCCTCGGGCA
17761	TCAACGGGGT	GGTGGACCTG	GCCAACCAGG	CCGTGCAGAA	ACAGATCAAC	AGCCGCCTGG
17821	ACGCGGTCCC	GCCCGCGGGG	TCCGTGGAGA	TGCCCCAGGT	GGAGGAGGAG	CTGCCTCCCC
17881	TGGACAAGCG	CGGCGACAAG	CGACCGCGTC	CCGATGCAGA	GGAGACGCTG	CTGACGCACA
17941	CGGACGAGCC	GCCCCCGTAC	GAGGAGGCGG	TGAAACTGGG	TCTGCCCACC	ACGCGGCCCG
18001	TGGCGCCTCT	GGCCACCGGG	GTGCTGAAAC	CCAGCAGCAG	CAGCCAGCCC	GCGACCCTGG
18061	ACTTGCCTCC	GCCTGCTTCC	CGCCCTCCA	CAGTGGCTAA	GCCCCTGCCG	CCGGTGGCCG
18121	TCGCGTCGCG	CGCCCCCGA	GGCCGCCCC	AGGCGAACTG	GCAGAGCACT	CTGAACAGCA
18181	TCGTGGGTCT	GGGAGTGCAG	AGTGTGAAGC	GCCGCCGCTG	CTATTAAAAG	ACACTGTAGC
18241	GCTTAACTTG	CTTGTCTGTG	TGTATATGTA	TGTCCGCCGA	CCAGAAGGAA	GAGGCGCGTC
18301	GCCGAGTTGC	AAGATGGCCA	CCCCATCGAT	GCTGCCCCAG	TGGGCGTACA	TGCACATCGC
18361	CGGACAGGAC	GCTTCGGAGT	ACCTGAGTCC	GGGTCTGGTG	CAGTTCGCCC	GCGCCACAGA
18421	CACCTACTTC	AGTCTGGGGA	ACAAGTTTAG	GAACCCCACG	GTGGCGCCCA	CGCACGATGT
18481	GACCACCGAC	CGCAGCCAGC	GGCTGACGCT	GCGCTTCGTG	CCCGTGGACC	GCGAGGACAA
18541	CACCTACTCG	TACAAAGTGC	GCTACACGCT	GGCCGTGGGC	GACAACCGCG	TGCTGGACAT
18601	GGCCAGCACC	TACTTTGACA	TCCGCGGCGT	GCTGGATCGG	GGCCCCAGCT	TCAAACCCTA
18661	CTCCGGCACC	GCCTACAACA	GCCTGGCTCC.	CAAGGGAGCG.	CCCAACACCT	CACAGTGGAT
18721	AACCAAAGAC	AATGGAACTG	ATAAGACATA	CAGTTTTGGA	AATGCTCCAG	TCAGAGGATT
18,781	GGACATTACA	GAAGAGGGTC	TCCAAATAGG	ACCCGATGAG	TCAGGGGGTG	AAAGCAAGAA
18841	AATTTTTGCA	GACAAAACCT	ATCAGCCTGA	ACCTCAGCTT	GGAGATGAGG	AATGGCATGA
18901	TACTATTGGA	GCTGAAGACA	AGTATGGAGG	CAGAGCGCTT	AAACCTGCCA	CCAACATGAA
18961	ACCCTGCTAT	GGGTCTTTCG	CCAAGCCAAC	TAATGCTAAG	GGAGGTCAGG	CTAAAAGCAG
19021	AACCAAGGAC	GATGGCACTA	CTGAGCCTGA	TATTGACATG	GCCTTCTTTG	ACGATCGCAG
19081	TCAGCAAGCT	AGTTTCAGTC	CAGAACTTGT	TTTGTATACT	GAGAATGTCG	ATCTGGACAC
19141	CCCGGATACC	CACATTATTT	ACAAACCTGG	CACTGATGAA	ACAAGTTCTT	CTTTCAACTT
19201	GGGTCAGCAG	TCCATGCCCA	ACAGACCCAA	CTACATCGGC	TTCAGAGACA	ACTTTATCGG
19261	TCTCATGTAC	TACAACAGTA	CTGGCAATAT	GGGTGTACTA	GCTGGACAGG	CCTCCCAGCT
19321	GAATGCTGTG	GTGGACTTGC	AGGACAGAAA	CACTGAACTG	TCCTACCAGC	TCTTGCTTGA
19381	CTCTCTGGGT	GACAGAACCA	GGTATTTCAG	TATGTGGAAC	CAGGCGGTGG	ACAGCTACGA
19441	CCCCGATGTG	CGCATTATTG	AAAATCACGG	TGTGGAGGAT	GAACTACCCA	ACTATTGCTT
19501	CCCTTTGAAT	GGTGTGGGCT	TTACAGATAC	ATTCCAGGGA	ATTAAGGTTA	AAACTACCAA
19561	TAACGGAACA	GCAAATGCTA	CAGAGTGGGA	ATCTGATACC	TCTGTCAATA	ATGCTAATGA
19621	GATTGCCAAG	GGCAATCCTT	TCGCCATGGA	GATCAACATC	CAGGCCAACC	TGTGGCGGAA
19681	CTTCCTCTAC	GCGAACGTGG	CGCTGTACCT	GCCCGACTCC	TACAAGTACA	CGCCGGCCAA
19741	CATCACGCTG	CCCGCCAACA	CCAACACCTA	CGATTACATG	AACGGCCGCG	TGGTAGCGCC
19801	CTCGCTGGTG	GACGCCTACA	TCAACATCGG	GGCGCGCTGG	TCGCTGGACC	CCATGGACAA
19861	CGTCAACCCC	TTCAACCACC	ACCGCAACGC	GGGCCTGCGC	TACCGCTCCA	TGCTCCTGGG
19921	CAACGGGCGC	TACGTGCCCT	TCCACATCCA	GGTGCCCCAA	AAGTTTTTCG	CCATCAAGAG
19981	CCTCCTGCTC	CTGCCCGGGT	CCTACACCTA	CGAGTGGAAC	TTCCGCAAGG	ACGTCAACAT
20041	GATCCTGCAG	AGCTCCCTCG	GCAACGACCT	GCGCACGGAC	GGGGCCTCCA	TCGCCTTCAC
20101	CAGCATCAAC	CTCTACGCCA	CCTTCTTCCC	CATGGCGCAC	AACACCGCCT	CCACGCTCGA
20161	GGCCATGCTG	CGCAACGACA	CCAACGACCA	GTCCTTCAAC	GACTACCTCT	CGGCGGCCAA
20221	CATGCTCTAC	CCCATCCCGG	CCAACGCCAC	CAACGTGCCC	ATCTCCATCC	CCTCGCGCAA
20281	CTGGGCCGCC	TTCCGCGGCT	GGTCCTTCAC	GCGCCTCAAG	ACCCGCGAGA	ССССТСССТ
20341	CGGCTCCGGG	TTCGACCCCT	ACTTCGTCTA	CTCGGGCTCC	ATCCCCTACC	TCGACGGCAC
20401	CTTCTACCTC	AACCACACCT	TCAAGAAGGT	CTCCATCACC	TTCGACTCCT	CCGTCAGCTG
20461	GCCCGGCAAC	GACCGCCTCC	TGACGCCCAA	CGAGTTCGAA	ATCAAGCGCA	CCGTCGACGG

20521			AGTGCAACAT			
20581			ACCAGGGCTT			
20641	GTACTCCTTC	TTCCGCAACT	TCCAGCCCAT	GAGCCGCCAG	GTCGTGGACG	AGGTCAACTA
20701	CAAGGACTAC	CAGGCCGTCA	CCCTGGCCTA	CCAGCACAAC	AACTCGGGCT	TCGTCGGCTA
20761	CCTCGCGCCC	ACCATGCGCC	AGGGACAGCC	CTACCCCGCC	AACTACCCCT	ACCCGCTCAT
20821			GCGTCACCCA			
20881	GCGCATCCCC		. ACTTCATGTC			
20941	CATGCTCTAC		CCCACGCGCT			ACCCCATGGA
21001			TTGTCTTCGA			
21061	CCACCGCGGC	GTCATCGAGG	CCGTCTACCT	GCGCACGCCC	TTCTCGGCCG	GTAACGCCAC
21121	CACCTAAGCC	CCGCTCTTGC	TTCTTGCAAG	ATGACGGCCT	GTGCGGGCTC	CGGCGAGCAG
21181	GAGCTCAGGG	CCATCCTCCG	CGACCTGGGC	TGCGGGCCCT	GCTTCCTGGG	CACCTTCGAC
21241	AAGCGCTTCC	CGGGATTCAT	GGCCCGCAC	AAGCTGGCCT	GCGCCATCGT	CAACACGGCC
21301	GGCCGCGAGA	CCGGGGGCGA	GCACTGGCTG	GCCTTCGCCT	GGAACCCGCG	CTCCCACACC
21361	TGCTACCTCT	TCGACCCCTT	CGGGTTCTCG	AACGAGCGCC	TCAAGCAGAT	CTACCAGTTC
21421	GAGTACGAGG	GCCTGCTGCG	CCGCAGCGCC	CTGGCCACCG	AGGACCGCTG	CGTCACCCTG
21481	GAAAAGTCCA	CCCAGACCGT	GCAGGGTCCG	CGCTCGGCCG	ССТСССССССТ	CTTCTCCTCC
21541	ATGTTCCTGC	ACGCCTTCGT	GCACTGGCCC	GACCGCCCCA	TGGACAAGAA	CCCCACCATG
21601	AACTTGCTGA	CGGGGGTGCC	CAACGGCATG	CTCCAGTCGC	CCCAGGTGGA	ACCCACCCTC
21661	CGCCGCAACC	AGGAAGCGCT	CTACCGCTTC	CTCAACGCCC	ACTCCCCCTA	CTTTTCCCTC
21721	CACCGCGCGC	GCATCGAGAA	GGCCACCGCC	TTCGACCGCA	TCAATCAACA	CATCTTAAACC
21781	GTGTGTGTAT	GTGAATGCTT	TATTCATAAT	AAACAGCACA	ጥርጥጥጥልጥርርር	ACCUTCTCTC
21841	AGGCTCTGAC	TTTATTTAGA	AATCGAAGGG	GTTCTGCCGG	CTCTCCCCAT	GCCCCCCCCC
21901	CAGGGATACG	TTGCGGAACT				
21961			ACGAGTCGCT	CCACACCTTC	CCCCTCACTT	GCAGGGCGCC
22021	CAGCAGGTCG	GGCGCGGAGA	TCTTGAAATC	CCACTTCCCA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
-22081	GTTGCGGTAC	ACGGGGTTGC	AGCACTGGAA	CACCATCAGG	CCCGCGTTCT	TCACCCTCCC
22141			TGCCCTCCAC			
22201	GGGGGTCATC	TTCCACCTCT	GCCGCCCAT	CCTCCCCACC	LYCCCCCCCC	CCAICCGAA
22261	ATCGCAGTGC	AGGGGGATCA	GCATCATCTG	GCCCTCCTCC	CAGCCGGGCI	CCCCCCTTCTT
22321	GGCCTTCATG	AAAGCCTCCA	GCTGGCGGAA	CCCCTCCTCC	GWGCTCWTGC	CCGGGTACAT
22381	GAAGACCCCG	CAGGACTTGC	TAGAGAACTG	CTTCCTCCCC	CACCCCCCCCC	CCTCGGTGAA
22441	GCAGCGCGCG		CCAGCTGCAC			
22501		TCGCGGTTCT	CCTTCAGCGC	CACGCTGCGC	THE CHARGE GGT	TCTGGGTGAT
22561	CTCGATCGTG	TCCCCCTTCT	GGATCATCAC	GGTCCCGTGC		
22621			GCCACAGCGC		COCOCCA	GCTTGCTCTC
22681	CATCTCCCAC	TGCGAGTGCA	CGAAGCCCTG	GCWGCCGGTG	CTCTCCCAGT	TCTTGTGGGC
22741	CTTCTGGGAG	CTCAACCTCA	GCGGGATGCC	CCCCTCCTCC	CCCATCATCG	CGGTCAGGGT
22801	CATCCCCCCC	TACACCTCC	CCTGCTCGGG	GCGGIGCICC	TCGTTCACAT	ACAGGTGGCA
22861	CTCCACGCGG					
22921		ACCCECTCACCC	TCAGCAGCGT GGTTCTTCAC	CATGACTTCC	ATGCCCTTCT	CCCAGGCCGA
22981	CAGGGGGTCG		GGTTCTTCAC			
23041						
23101	CACGGGGGGG	CMCAMCMCMC	CCACGGCCGC	AMAGEMENT	TCGGCCTGCC	TTTCGTCCTC
23161	GCIGICCIGG	CIGATGICIT	GCAAAGGCAC	ATGCTTGGTC	TTGCGGGGTT	TCTTTTTGGG
23221		TO COCO COCO COCO	ACGTGCTGGG	CGAGCGCGAG	TTCTCGCTCA	CCACGACTAT
23281	J.C.T.C.T.T.C.T.	TGGCCGTCGT	CCGAGACCAC	GCGGCGGTAG	GCATGCCTCT	TCTGGGGCAG
	AGGCGGAGGC	GACGGGCTCT	CGCGGTTCGG	CGGGCGGCTG	GCAGAGCCCC	TTCCGCGTTC
23341	GGGGGTGCGC	TCCTGGCGGC	GCTGCTCTGA	CTGACTTCCT	CCGCGGCCGG	CCATTGTGTT
23401	CTCCTAGGGA	GCAACAACAA	GCATGGAGAC	TCAGCCATCG	TCGCCAACAT	CGCCATCTGC
23461		GACGAGAACC	AGCAGAATGA	AAGCTTAACC	GCCCCGCCGC	CCAGCCCCAC
23521	CTCCGACGCC	GCGGCCCCAG	ACATGCAAGA	GATGGAGGAA	TCCATCGAGA	TTGACCTGGG
23581	CTACGTGACG	CCCGCGGAGC	ACGAGGAGGA	GCTGGCAGCG	CGCTTTTCAG	CCCCGGAAGA
23641	GAACCACCAA	GAGCAGCCAG	AGCAGGAAGC	AGAGAGCGAG	CAGAACCAGG	CTGGGCTCGA
23701	GCATGGCGAC	TACCTGAGCG	GGGCAGAGGA	CGTGCTCATC	AAGCATCTGA	CCCGCCAATG
23761	CATCATCGTC	AAGGACGCGC	TGCTCGACCG	CGCCGAGGTG	CCCCTCAGCG	TGGCGGAGCT
23821	CAGCCGCGCC	TACGAGCGCA	ACCTCTTCTC	GCCGCGCGTG	CCCCCAAGC	GCCAGCCCAA
23881	CGGCACCTGC	GAGCCCAACC	CGCGCCTCAA	CTTCTACCCG	GTCTTCGCGG	TGCCCGAGGC

FIG. 6G

23941			TTTTCAAGAA			
24001	CCGCACCCGC	GCCGACGCCC	TGCTCAACCT	GGGCCCCGGC	GCCCGCCTAC	CTGATATCAC
24061	CTCCTTGGAA	GAGGTTCCCA	AGATCTTCGA	GGGTCTGGGC	AGCGACGAGA	CTCGGGCCGC
24121	GAACGCTCTG	CAAGGAAGCG	GAGAGGAACA	TGAGCACCAC	AGCGCCCTGG	TGGAGTTGGA
24181	AGGCGACAAC	GCGCGCCTGG	CGGTGCTCAA	GCGCACGGTC	GAGCTGACCC	ACTTCGCCTA
24241	CCCGGCGCTC	AACCTGCCCC	CCAAGGTCAT	GAGCGCCGTC	ATGGACCAGG	TGCTCATCAA
24301	GCGCGCCTCG	CCCATTGAGG	ACATGCAGGA	CCCCGAGAGC	TCGGACGAGG	GCAAGCCCGT
24361	GGTCAGCGAC	GAGCAGCTGG	CGCGCTGGCT	GGGAGCGAGT	AGCACCCCCC	AGAGCCTGGA
24421	AGAGCGGCGC	AAGCTCATGA	TGGCCGTGGT	CCTGGTGACC	GTGGAGCTGG	AGTGTCTGCG
24481	CCGCTTCTTC	GCCGACGCAG	AGACCCTGCG	CAAGGTCGAG	GAGAACCTGC	ACTACCTCTT
24541			AGGCCTGCAA			
24601			ACGAGAACCG			
24661			ACTACATCCG			
24721			TGTGGCAGCA			
24781			ACCTCAAGGC			
24841	CGCCTCGGAC				CGGCTGACGC	
24901			AAAGCATGTT			
24961			CCTGCTCCGC			
25021			TCTGGAGCCA			
25081			TCGAGGACGT			
25141			CGCACCGCTC			
25201			TCGAGTTGCA			
25261			GGACCTCGGC			
25321		GAGATCAGGT			CCGCCCAAGG	
25381			GGGCCATCCT			
25441			AGGGCCACGG			
						AAAGTGGAGC
25561			GAGGAAGACT			
25621			GCAGAGGAGG			
25681			GCAGAGGAAG			
25741			GATACCATCT			
25801			ACCGGGCGCT			
25861			TCCTGGCGGG			
25921	AAGCCTGCGG		TCCTTCACCC			
25981	ACTTCCCCCG			GTCACCTCCA		
26041			CAGCAGCAGA			TACTGTTTCC
26101	TCCACAGCGG		GAGGATCGCG			
26161	AGGAACCGGA					
26221	GAACTGAAAG		CCTCTATGCC			
26281					GCAGTTGTCT	
26341			CACTCTCGAG GCCCGCGCCC			
26401			CCGACCATCA			
26461			ATGGGTCTGG			
26521			GGGCCCGCGA			
26581			GAACAGTCAG			
26641			GCCCTGGTGT			
26701			GCCGAAGTCC			
26761			CACCGCCCCG			
26821			GACGAGGTGG			
26881			TCGGGGAGAT			
26941			CAGCCCCGCT			
27001			TACTTCAACC			
27061			GACGCCATCA			
27121			CTAGCTCGGC			
27181			GCCGAGTTTG			
27241			CGGATCATCA			
27301	GGATCTTCAG	CCAGCGACCG	ATCCTGGTCG	AGCGCGAGCA	AGGACAGACC	CGTCTGACCC

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27361 TGTACTGCAT CTGCAACCAC CCCGGCCTGC ATGAAAGTCT TTGTTGTCTG CTGTGTACTG 27421 AGTATAATAA AAGCTGAGAT CAGCGACTAC TCCGGACTCG ATTGTGGTGT TCCTGCTATC 27481 AACCGGTCCC TGTTCTTCAC CGGGAACGAG ACCGAGCTCC AGCTCCAGTG TAAGCCCCAC 27541 AAGAAGTACC TCACCTGGCT GTTCCAGGGC TCTCCGATCG CCGTTGTCAA CCACTGCGAC 27601 AACGACGGAG TCCTGCTGAG CGGCCCTGCC AACCTTACTT TTTCCACCCG CAGAAGCAAG 27661 CTCCAGCTCT TCCAACCCTT CCTCCCCGGG ACCTATCAGT GCGTCTCGGG ACCCTGCCAT 27721 CACACCTTCC ACCTGATCCC GAATACCACA GCGCCGCTCC CCGCTACTAA CAACCAAACT 27781 ACCCACCAC GCCACCGTCG CGACCTTTCC TCTGAATCTA ATACTACCAC CCACACCGGA 27841 GGTGAGCTCC GAGGTCGACC AACCTCTGGG ATTTACTACG GCCCCTGGGA GGTGGTGGGG 279 01 TTAATAGCGC TAGGCCTAGT TGTGGGTGGG CTTTTGGCTC TCTGCTACCT ATACCTCCCT 27901 TTAATAGCGC TAGGCCTAGT TGTGGGTGGG CTTTTGGCTC TCTGCTACCT ATACCTCCCT
27961 TGCTGTTCGT ACTTAGTGGT GCTGTGTTGC TGGTTTAAGA AATGGGGAAG ATCACCCTAG
28021 TGAGCTGCGG TGTGCTGGTG GCGGTGTTGC TTTCGATTGT GGGACTGGGC GGCGCGGCTG
28081 TAGTGAAGGA GGAGAAGGCC GATCCCTGCT TGCATTTCAA TCCCGACAAA TGCCAGCTGA
28141 GTTTTCAGCC CGATGGCAAT CGGTGCACGG TGCTGATCAA GTGCGGATGG GAATGTGAGA
28201 ACGTGAGAAT CGAGTACAAT AACAAGACTC GGAACAATAC TCTCGCGTCC GTGTGGCAAC 28261 CCGGGGACCC CGAGTGGTAC ACCGTCTCTG TCCCCGGTGC TGACGGCTCC CCGCGCACCG
28321 TGAATAATAC TTTCATTTTT GCGCACATGT GCGACACGGT CATGTGGATG AGCAAGCAGT
28381 ACGATATGTG GCCCCCACG AAGGAGAACA TCGTGGTCTT CTCCATCGCT TACAGCGTGT 28441 GCACGGCGT AATCACCGCT ATCGTGTGCC TGAGCATTCA CATGCTCATC GCTATTCGCC 285 01 CCAGAAATAA TGCCGAAAAA GAGAAACAGC CATAACACGT TTTTTCACAC ACCTTTTTCA 285 61 GACCATGGCC TCTGTTACTG CCCTAATTAT TTTTTTGGGT CTCGTGGGCA CTAGCAGCAC 28621 TTTTCAGCAT ATAAACAAAA CTGTTTATGC TGGTTCTAAT TCTGTATTAC CTGGGCATCA 286 81 ATCACACCAG AAAGTTTCAT GGTACTGGTA TGATAAAAAT AACACGCCAG TCACACTCTG 287 41 CAAGGGTCAT CAAACACCCA TAAACCGTAG TGGAATTTTT TTTAAATGTA ATCATAATAA 288 01 TATTACACTA CTTTCAATTA CAAAGCACTA TTCTGGTACT TACTATGGAA CCAATTTTAA 288 61 CATAAAACAG GACACTTACT ATAGTGTCAC AGTATTGGAT CCAACTACTC CTAGAACAAC - 289-21 TACAAAACCC ACAACTACTA AGAGGCACAC TAAACCTAAA ACTACCAAGA AAACCACTGT. 28981 CAAAACAACA ACTAGGACCA CCACAACTAC AGAGGCTACC ACCAGCACAA CACTTGCTGC 290 41 AACTACACAC ACACACACTG AGCTAACCTT ACAGACCACT AATGATTTGA TAGCCCTGTT 291.01 GCAAAAGGGG GATAACAGCA CCACTTCCGA TGAGGAAATA CCCAAATCCA TGATTGGCAT 291 61 TATTGTTGCT GTAGTGGTGT GCATGTTGAT CATCGCCTTG TGCATGGTGT ACTATGCCTT 292 21 CTGCTACAGA AAGCACAGAC TGAACGACAA GCTGGAACAC TTACTAAGTG TTGAATTTTA 292 81 ATTTTTAGA ACCATGAAGA TCCTAGGCCT TTTAGTTTTT TCTATCATTA CCTCTGCTCT 293 41 TTGTGAATCA GTGAATAAG ATGTTACTAT TACCACTGGT TCTAATTATA CACTGAAAGG 294 01 GCCACCCTCA GGTATGCTTT CGTGGTATTG CTATTTTGGA ACTGACACTG ATCAAACTGA 294 61 ATTATGCAAT TTTCAAAAAG GCAAAACCTC AAACTCTAAA ATCTCTAATT ATCAATGCAA 295 21 TGGCACTGAT CTGATACTAC TCAATGTCAC GAAAGCATAT GGTGGCAGTT ATTCTTGCCC 295 81 TGGACAAAC ACTGAAGAAA TGATTTTTTA CAAAGTGGAA GTGGTTGATC CCACTACTCC 296 41 ACCCACCACC ACAACTACTC ACACCACACA CACAGAACAA ACCACAGCAG AGGAGGCAGC 297 01 AAAGTTAGCC TTGCAGGTCC AAGACAGTTC ATTTGTTGGC ATTACCCCTA CACCTGATCA 297 61 GCGGTGTCCG GGGCTGCTAG TCAGCGGCAT TGTCGGTGTG CTTTCGGGAT TAGCAGTCAT 298 21 AATCATCTGC ATGTTCATTT TTGCTTGCTG CTATAGAAGG CTTTACCGAC AAAAATCAGA 298 81 CCCACTGCTG AACCTCTATG TTTAATTTTT TCCAGAGCCA TGAAGGCAGT TAGCACTCTA 299 41 GTTTTTGTT CTTTGATTGG CATTGTTTTT AGTGCTGGGT TTTTGAAAAA TCTTACCATT 300 01 TATGAAGGTG AGAATGCCAC TCTAGTGGGC ATCAGTGGTC AAAATGTCAG CTGGCTAAAA 300 61 TACCATCTAG ATGGGTGGAA AGACATTTGC GATTGGAATG TCACTGTGTA TACATGTAAT 301 21 GGAGTTAACC TCACCATTAC TAATGCCACC CAAGATCAGA ATGGTAGGTT TAAGGGTCAG 30181 AGTTTCACTA GAAATAATGG GTATGAATCC CATAACATGT TTATCTATGA CGTCACTGTC 302 41 ATCAGAAATG AGACCGCCAC CACCACAGA ATGCCCACTA CACACAGTTC TACCACTACT 303 O1 ACCAAGCAAA CCACACAGAC AACCACTTTT TATACATCAA CTCAGCATAT GACCACCACT 303 61 ACAGCAGCAA AGCCAAGTAG CGCAGCGCCT CAGCCACAGG CTTTGGCTTT GAAAGCTGCA 30421 CAACCTAGTA CAACTACTAA GACCAATGAG CAGACTACTG ATTTTTTGTC CACTGTCGAG 30481 AGCCACACCA CAGCTACCTC CAGTGCCTTC TCTAGCACCG CCAATCTCTC CTCGCTTTCC 30541 TCTACACCAA TCAGTCCCGC TACTACTCCT AGCCCCGCTC CTCTTCCCAC TCCCCTGAAG 306 O1 CAAACAGACG GCGGCATGCA ATGGCAGATC ACCCTGCTCA TTGTGATCGG GTTGGTCATC 306 61 CTGGCCGTGT TGCTCTACTA CATCTTCTGC CGCCGCATTC CCAACGCGCA CCGCAAGCCG 307 21 GTCTACAAGC CCATCGTTGT CGGGCAGCCG GAGCCGCTTC AGGTGGAAGG GGGTCTAAGG

30781	AATCTTCTCT	TCTCTTTTAC	AGTATGGTGA	TTGAACTATG	ATTCCTAGAC	AATTCTTGAT
30841	CACTATTCTT	ATCTGCCTCC	TCCAAGTCTG	TGCCACCCTC	GCTCTGGTGG	CCAACGCCAG
30901	TCCAGACTGT	ATTGGGCCCT	TCGCCTCCTA	CGTGCTCTTT	GCCTTCATCA	CCTGCATCTG
30961	CTGTTGTAGC			CTTCTTCCAG		
31021	GCGCATCGCC	TACCTGCGCC	ACCACCCCCA	GTACCGCGAC	CAGCGAGTGG	CGCGACTGCT
31081	CAGGCTCCTC	TGATAAGCAT	GCGGGCTCTG	CTACTTCTCG	CGCTTCTGCT	GTTAGTGCTC
31141	CCCCGTCCCG	TCGACCCCCG	GTCCCCCGAG	GAGGTCCGCA	AATGCAAATT	CCAAGAACCC
31201	TGGAAATTCC	TCAAATGCTA	CCGCCAAAAA	TCAGACATGC	ATCCCAGCTG	GATCATGATC
31261	ATTGGGATCG	TGAACATTCT	GGCCTGCACC	CTCATCTCCT	TTGTGATTTA	CCCCTGCTTT
31321	GACTTTGGTT	GGAACTCGCC	AGAGGCACTC	TATCTCCCGC	CTGAGCCTGA	CACACCACCA
31381	CAGCAGCAAC	CTCAGGCACA	CGCACTACCA	CCACCACAGC	CTAGGCCACA	ATACATGCCC
31441				CCCATGCTCC		
31501	CTAACCGGCG	GAGATGACTG	ACCCACTGGC	CAACAACAAC	GTCAACGACC	TTCTCCTGGA
31561	CATGGACGGC	CGCGCCTCGG	AGCAGCGACT	CGCCCAACTC	CGCATCCGCC	AGCAGCAGGA
31621	GAGAGCCGTC	AAGGAGCTGC	AGGATGCGGT	GGCCATCCAC	CAGTGCAAGA	AAGGCATCTT
31681	CTGCCTGGTG	AAGCAGGCCA	AGATCTCCTA	CGAGGTCACC	CAGACCGACC	ATCGCCTCTC
31741	CTACGAGCTC			CACCTGCCTG		
31801	CATCACCCAG	CAGTCGGGCG	ATACCAAGGG	GTGCATCCAC	TGCTCCTGCG	ACTCCCCCGA
31861	GTGCGTTCAC	ACCATGATCA	AGACCCTCTG	CGGCCTCCGC	GACCTCCTCC	CCATGAACTA
31921				ATATTGATGA		
31981				ATTGATGATT		
32041				TCTGTCCATG		
32101				GCCCCGGCGG		
32161				CTCAATCTTC		
32221	TCCAAAAAGC			TTCGACCCCG		
32281	AACGCACCGA	CTGTGCCCTT		CCCTTCGTCT		
32341	AAGCCCCTGG	GGGTGTTGTC	CCTGCGACTG	GCCGATCCCG	TCACCACCAA	GAACGGGGCT
32401				CTCGACGACT		
32461				ATTTCCAACA		
32521				CTAGGTATGA		
32581	ATATTAGACA	CAGATCTACT	AAAAACACTT	GTTGTTGCTT	ATGGGCAGGG	ATTAGGAACA
32641				GCATACCCAC		
32701	AAAATTGCCC			TTAAAAGTGG		
32761	AATTGCAAAA	GAGGTATCTA		ACAAAAGATG		
32821		CTATGACATT		GCCATTGGTG		
32881				ACAGATGTTA		
32941				AGCACAGGTG		
33001				GCCGATCCAT		
33061		ATGCTAAGCT		TTGACAAAGT		
33121	ACTGTTTCTC			AGCTTAAATC		
33181	ACTGCTCTTG			AATGGAGTTT		
33241	GATAAAGAAT	ATTGGAATTT	CAGAAAAGGA	GATGTGACAC	CTGCTGACCC	CTACACTAAT
33301	GCTATAGGCT	TTATGCCCAA	CCTTAATGCA	TACCCAAAAA	ACACAAACGC	ACCTCCAAAA
33361	AGTCACATTG	TTGGAAAAGT	ATACCTACAT	GGGGATGAAA	GCAAGCCACT	AGACTTGATA
33421	ATTACATTTA	ATGAAACCAG	TGATGAATCC	TGTACTTATT	CCATTAACTT	TCACTCCCAC
33481	TGGGGAACTG	ACCAATATAA	AGATGAAACA	CTTGCAGTCA	GTTCATTCAC	CTTCTCTTATAC
33541	ATTGCTAAAG	AATAACATCC	ACCCTGCATG	CCAACCCATT	中ででで中で中る中で	TATACATECA
	AAACTCTGAA	GCAGAAAAA	TAAAGTTCAA	CTCTTTT	CATTCAACAC	TATACATAGA
33661	ATTCGAGTAG	TTATTTCCC	TCCACCCTCC	CAACTCATGG	DADACOACCAT	CCTCTCCCCA
33721	CGCACAGCCT	TAAACATCTG	AATGCCATTG	GTAATGGACA	TCCTTTTCCCC	CUICICCCCA
	CACACAGTTT	CAGAGCGAGC	CAGTCTCGGG	TCGGTCAGGG	TGGTTTTGGC	CALCACATIO
33841	TCCTGCATCT	GCACCTCACA	GTTCAACACC	TGAGGGCTCTGT	CCACCACCA TAGETT GWWWCC	CICCGGGCAC
33901	GTTATCTGGA	AGAAGAGCGA	TGAGAGTCAT	AATCCCCCAA	CCTCGGTGGT	CGCTTCTCC
33961	GCATCAGGCC	CCGCAGCAGT	CGCTGTCTCC	CCCCCCCC	CAGGATCGGG	CAGIIGIGGC
34021	CCGGGTCCAG	GGACTCCCCG	CCCATCATCC	CCAGCICCGI	CVCCVCCVC	CICHAGGGGI
34081	GGCGGGCGCA	GCAGCGGATG	CGGATCTCAC	TCACCTCCCA	O'TGCWICWGI	CACCIGGIGC
34141	CTACCAAGTT	GTTCAACAGT	CCATACTTCA	ACCACCACCA	CCCDDVVCGIG	AMCMCMCCAA
		~ - ~ C	COLLEGE	ANG EGULUUM	OCCUMMACTC	ATCIGIGGAA

342 01	CTATGCTGCC	CACATGTCCA	TCGTACCAGA	TCCTGATGTA	AATCAGGTGG	CGCCCCCTCC	1
342 61		GCCCATGTAC					
343 21	ACCACATCAC		AACATGCAGC				
343 81	GCACCGCCCC						
34441	TCCACCGCTC	GTACCCGTGG					
345 01	GGCACACGCT	CATGCATCTC					
345 61	AGGGTACGGG	GAACTCTTGC					
34621		GTGCATGGAC					
346 81	GGGAAGCGCG	GGTCTCGATT	TCCTCACAGC	GTGGTAAGGG	GGCCGGTCGA	TACGGGTGAT	1
347 <b>4</b> 1	GGCGGGACGC	GGCTGATCGT	GTTCGCGATC	GTGTCATGAT	GCAGTTGCTT	TCGGACATTT	1
348 O1	TCGTACTTGC	TATAGCAGAA	CCTGGTCCGG	GCGCTGCACA	CCGATCGCCG	GCGGCGGTCT	•
348 61	CGGCGCTTGG	AACGCTCCGT	GTTGAAATTG	TAAAACAGCC	ACTCTCTCAG	ACCGTGCAGC	ļ
349 21	AGATCTAGGG	CCTCAGGAGT	GATGAAGATC	CCATCATGCC	TGATGGCTCT	GATCACATCG	t T
349 81		AATGGGCCAG					
350 <i>4</i> 1		GAAGAACAGG					
351 <b>0</b> 1	CTTCAAAATG	AAGGTCGCGG	AGATGGCACC	TCTCGCCCCC	GCTGTGTTGG	TGGAAAATAA	
351 61		AAAGGTGATA					
35221	CCACGCGCAC	ATCCAGAAAC	AAGACAATAG	CGAAAGCGGG	AGGGTTCTCT	AATTCCTCAA	
35281	TCATCATGTT	ACACTCCTGC	ACCATCCCCA	GATAATTTTC	ATTTTTCCAG	CCTTGAATGA	
353 41	TTCGAACTAG	TTCCTGAGGT	AAATCCAAGC	CAGCCATGAT	AAAGAGCTCG	CGCAGAGCGC	
354 <b>O</b> 1		CATTCTTAAG					
35461		TTGACAAGCG					
35521	CAGCAATAAC	TGTAAGTACT	CTCTCATATC	CTCTCCGAAA	TTTTTAGCCA	TAGGACCGCC	
35581		TTAGGGCAAG					
356 <b>4</b> 1		AGACTGCTAT					
357 <b>O</b> 1	GGACAGAAAA	TCGCCCAGGC	AATTTTTAAG	AAAATCAACA	AAAGAAAAAT	CCTCCAGGTG	
35761	- CACGTTTAGA	GCCTCGGGAA.	CAACGATGGA	GTAAATGCAA	GCGGTGCGTT	CCAGCATGGT	
35821	-TAGT:TAGCTG						
35881	AGGTGGGTAA	ATCGTTCTTT	CCAGCACCAG	GCAGGCCACG	GGGTCTCCGG	CGCGACCCTC	
359 <b>4</b> 1	GTAAAAATTG	TCGCTATGAT	TGAAAACCAT	CACAGAGAGA	CGTTCCCGGT	GGCCGGCGTG	
360 O1		CAAGACGAAT					
36061	CCCGAGGAAG	CAATAAGGCA	CTACAATGCT	CAGTCTCAAG	TCCAGCAAAG	CGATGCCATG	
36121	CGGATGAAGC	ACAAAATTCT	CAGGTGCGTA	CAAAATGTAA	TTACTCCCCT	CCTGCACAGG	
36181		CCCGATCCCT				TAGCTTACCG	
362 <b>4</b> 1	AGCAGCAGCG	GCACACAACA	GGCGCAAAAG	TCAGAGAAAG	GCTGAGAGCT	CTAACCTGTC	
363 <b>O</b> 1	CACCCGCTCT					CAAAGTCTAA	
36361	AAATACCCGC					GACACACTCA	
36421		CGCACTTCCT				TCCCACGCTA	
36481	CGTCATCAAA					CGCCCCGCCC	
36541	CTAACGGTCG				CCCCAAATTC	AAACGGCTCA	
366 <b>O</b> 1	TTTGCATATT	AACGCGCACC	AAAAGTTTGA	GGTATATTAT	TGATGATG (	(SEQ ID NO:	2)

_						
			AAACTTTTGG			
			GATTGGCTGC			
			TATGAGGCGG			
			TTGAACACGG			
			CGGATGCAAG			
			AGTAATTTCG			
			ATTACGTGGG			
			TCCGGTGTTT			
			TCAAGAGGCC			
			TCTACACTTT			
			GGGAACGAGA			
			CCTACCCCAT			
			GAGAGCGACC			
			GCCGAGCAGG			
			CCCGGCAGAG			
			TATGAGGAAT			
			GTGAACCAGG			
			GGACACGGCT			
			TGTGCCCTGT			
			TAGTTGGGAA			
1201	ATTTATGTAT	ATGTTTTTTT	ATGTGTAGGT	CCCGTCTCTG	ACGTAGATGA	GACCCCCACT
1261	TCAGAGTGCA	TTTCATCACC	CCCAGAAATT	GGCGAGGAAC	CGCCCGAAGA	TATTATTCAT
1321	AGACCAGTTG	CAGTGAGAGT	CACCGGGCGG	AGAGCAGCTG	TGGAGAGTTT	GGATGACTTG
1381	CTACAGGGTG	GGGATGAACC	TTTGGACTTG	TGTACCCGGA	AACGCCCCAG	GCACTAAGTG
1441	CCACACATGT	GTGTTTACTT	AAGGTGATGT	CAGTATTTAT	AGGGTGTGGA	GTGCAATAAA
1501	ATCCGTGTTG	ACTTTAAGTG	CGTGTTTTAT	GACTCAGGGG	TGGGGACTGT	GGGTATATAA
1561	GCAGGTGCAG	ACCTGTGTGG	TCAGTTCAGA	GCAGGACTCA	TGGAGATCTG	GACTGTCTTG -
1621	GAAGACTTTC	ACCAGACTAG	ACAGTTGCTA	GAGAACTCAT	CGGAGGGAGT	CTCTTACCTG
1681	TGGAGATTCT	GCTTCGGTGG	GCCTCTAGCT	AAGCTAGTCT	ATAGGGCCAA	ACAGGATTAT
1741	AAGGAACAAT	TTGAGGATAT	TTTGAGAGAG	TGTCCTGGTA	TTTTTGACTC	TCTCAACTTG
1801	GGCCATCAGT	CTCACTTTAA	CCAGAGTATT	CTGAGAGCCC	TTGACTTTTC	TACTCCTGGC
1861	AGAACTACCG	CCGCGGTAGC	CTTTTTTGCC	TTTATTCTTG	ACAAATGGAG	TCAAGAAACC
1921	CATTTCAGCA	GGGATTACCG	TCTGGACTGC	TTAGCAGTAG	CTTTGTGGAG	AACATGGAGG
1981	TGCCAGCGCC	TGAATGCAAT	CTCCGGCTAC	TTGCCAGTAC	AGCCGGTAGA	CACGCTGAGG
2041	ATCCTGAGTC	TCCAGTCACC	CCAGGAACAC	CAACGCCGCC	AGCAGCCGCA	GCAGGAGCAG
			AGAGAACCCG			
			TTTCCCGAGC			
			CGGGAGAGGC			
			AGGCGCCCAG			
			GTGATGCATG			
			GATTGGGAGG			
2461	TGAAGCCAGA	CAAGAAGTAC	AAGATTACCA	AACTGATTAA	TATCAGAAAT	TCCTGCTACA
2521	TTTCAGGGAA	TGGGGCCGAG	GTGGAGATCA	GTACCCAGGA	GAGGGTGGCC	TTCAGATGTT
			GGGGTGGTGG			
			AATGGGGTGG			
			TTCAATAACA			
			GCCAACTGGA			
			TTCGAGAGGT			
			TCTACCGAGA			
			ATCTGTGGGG			
			CATATGCTGG			
			CACAACGTCA			
			TACCAGTGCA			
			AGCCTGACGG			
			TCCAAGACCA			
			TGTGTGGAGG			
			GAGTTCGGCT			
			AGCCTGCATG			
					- OTTO TEXTITALITY I	

FIG. 7A

3481	СФСФСФСФФС	CAGCAGCATG	א כיכיכים א כיכיכי	CCTCCTTTTC	CCCACCCCTA	mmax acaamm
		GCGTCTCCCC				
		GCCCGTGCAG				
		GGACGCAGCT				
		GGGCGCCGGC				
		CCTGAACGAG				
		GGGCGAGCTG				
3901	CGGTTGCCAC	GGTGAAAACC	AAATAAAAA	TGAATCAATA	AATAAACGGA	GACGGTTGTT
3961	GATTTTAACA	CAGAGTCTTG	AATCTTTATT	TGATTTTTCG	CGCGCGGTAG	GCCCTGGACC
4021	ACCGGTCTCG	ATCATTGAGC	ACCCGGTGGA	TCTTTTCCAG	GACCCGGTAG	AGGTGGGCTT
4081	GGATGTTGAG	GTACATGGGC	ATGAGCCCGT	CCCGGGGGTG	GAGGTAGCTC	CATTGCAGGG
4141	CCTCGTGCTC	GGGGATGGTG	TTGTAAATCA	CCCAGTCATA	GCAGGGGCGC	AGGGCGTGGT
		GTCCTTGAGG				
4261	TGACGAACCT	GTTGAGCTGG	GAGGGATGCA	TGCGGGGGGA	GATGAGATGC	ATCTTGGCCT
		ATTGGCGATG				
		GGTGTATCCG				
		TTTGGAGACG				
		GGGCCCGTGG				
		GTCCTGGGTG				
		GGGGACGAAG				
		GGCCTTGAGC				
		CGGGGGGGGG				
		ACCGGTGGGG				
		GCTGCCGTCC				
		CTCGCGCACG				
		GGCGAAGTTT				
		CAAGAGTTCC				
		ACCTCCTCGT				
		AGCGAGGCCA				
5221	- GGTCTCCGTC	ACGGTGAAGG	GGTGCGCGCC.	GGGCTGGGCG	CTTGCGAGGG	TGCGCTTCAG
5281	GCTCATCCGG	CTGGTCGAGA	ACCGCTCCCG-	GTCGGCGCCC	TGCGCGTCGG	CCAGGTAGCA
5341	ATTGAGCATG	AGTTCGTAGT	TGAGCGCCTC	GGCCGCGTGG	CCCTTGGCGC	GGAGCTTACC
5401	TTTGGAAGTG	TGTCCGCAGA	CGGGACAGAG	GAGGGACTTG	AGGGCGTAGA	GCTTGGGGGC
5461	GAGGAAGACG	GACTCGGGGG	CGTAGGCGTC	CGCGCCGCAG	CTGGCGCAGA	CGGTCTCGCA
		CAGGTGAGGT				
		TTCTTACCTC				
		TCCCCGTAGA				
		AGGAACCCCG				
		TGGGAGGGGT				
		ATGTCCCCCT				
		GGGGTCCCGG				
		GGATCGCTGT				
6001	CCCCCCCATC	ACCTCGGCAC	TCA CCTTCCC	A COMMON CA	GGTWGGTWTT	AUGULUICUAA
		TTGGAGACGC				
		TCGAGCTTGG				
		ATGGTCTGGT				
		TCGCGCGCCA				
		ACCCGCCAGC				
		AGGGGCTCGT				
		TCCAGCATGA				
		GGGTCGAAGT				
		GCCAGCGCGC				
		GAGGCGTACA				
		GTGGGGTAGC				
6721	CTCGTGCGAG	GGCGCGAGGA	GCCCCGTGCC	GAGGTTGGAG	CGTTGCGGCT	TTTCGGCGCG
		TGGCGGAAGA				
		GCGTGGGGCA				
6901	CAGCTTGGCG	ACGAGCTCGG	CGGTGACGAG	GACGTCCAGG	GCGCAGTAGT	CGAGGGTCTC

FIG. 7B

			29/101			
6961	TTGGATGATG	TCATACTTGA	GCTGGCCCTT	CTGCTTCCAC	AGCTCGCGGT	TGAGAAGGAA
	CTCTTCGCGG					
7081	GCCCACCATG	TAGAACTGGT	TGACGGCCTT	GTAGGCGCAG	CAGCCCTTCT	CCACGGGGAG
7141	GGCGTAAGCT	TGCGCGGCCT	TGCGCAGGGA	GGTGTGGGTG	AGGGCGAAGG	TGTCGCGCAC
7201	CATGACCTTG	AGGAACTGGT	GCTTGAAGTC	GAGGTCGTCG	CAGCCGCCCT	GCTCCCAGAG
7261	TTGGAAGTCC	GTGCGCTTCT	TGTAGGCGGG	GTTAGGCAAA	GCGAAAGTAA	CATCGTTGAA
7321	GAGGATCTTG	CCCGCGCGGG	GCATGAAGTT	GCGAGTGATG	CGGAAAGGCT	GGGGCACCTC
7381	GGCCCGGTTG	TTGATGACCT	GGGCGGCGAG	GACGATCTCG	TCGAAGCCGT	TGATGTTGTG
7441	CCCGACGATG	TAGAGTTCCA	CGAATCGCGG	GCGGCCCTTG	ACGTGGGGCA	GCTTCTTGAG
7501	CTCGTCGTAG	GTGAGCTCGG	CGGGGTCGCT	GAGCCCGTGC	TGCTCGAGGG	CCCAGTCGGC
	GACGTGGGGG					
7621	GCGGTCCCGG	TACTGACGGA	ACTGTTGGCC	CACGGCCATT	TTTTCGGGGG	TGACGCAGTA
7681	GAAGGTGCGG	GGGTCGCCGT	GCCANCGGTC	CCACTTGAGC	TGGAGGGCGA	GGTCGTGGGC
	GAGCTCGACG					
7801	CTTGCCGAAG	GACCCCATCC	AGGTGTAGGT	TTCCACATCG	TAGGTGAGGA	AGAGCCTTTC
7861	GGTGCGAGGA	TGCGAGCCGA	TGGGGAAGAA	CTGGATCTCC	TGCCACCAGT	TGGAGGAATG
7921	GCTGTTGATG	TGATGGAAGT	AGAAATGCCG	ACGGCGCGCC	GAGCACTCGT	GCTTGTGTTT
7981	ATACAAGCGT	CCGCAGTGCT	CGCAACGCTG	CACGGGATGC	ACGTGCTGCA	CGAGCTGTAC
	CTGGGTTCCT					
	CTGTACTACG					
	GAGCCCGCGC					
	GGCGCGCAGG					
	CGGCGCGCG					
	CTTGATCTCC					
	GGGCGCCACC					
	CGGCGAGGAC					
	-GGCACGTCGG					
	GCGACGACGC					
	GTGAGTTTGA					
	-TGCCGCAGGA					
	TGCTCGATCT					
	TCGTTGGAGA					
	CGGCTGTAGA					
	AGCTCGACGT					
	GTGGTGGCGA					
	CTGACGTCGC					
	AAAACTGGG					
	GCGATGGTGG					
	TCTTCCTCCT					
	GCCCTGCGTC					
	CGCCGGCGAC					
	ACGCCGCCGC					
	CTGACGATGC					
	AGATCCACGG					
	AGGCTGAGCC					
	TGGTGATGAA					
	CCTTGGGCCC					
	ACCTGGCGAG					
	229222222					
	CGGCGACGAC					
	CGTCGAAGTC					
	TGACGGACCA					
	AGTAGGCGCG					
	CGAGGAAGTG					
	GCGCGAGGTC					
	TGCCGGCGGC			· ·		
	GCGGCAGGAA					
10387	TGCTCTAGAC	ATACGGGCAA	AAACGAAAGC	GGTCAGCGGC	TUGACTUCGT	GGCCTGGAGG

10111	~=====	~~~~~~~				
10441	CTAAGCGAAC	GGGTTGGGCT	GCGCGTGTAC	CCCGGTTCGA	ATCTCGAATC	AGGCTGGAGC
10501	CGCAGCTAAC	GTGGTACTGG	CACTCCCGTC	TCGACCCAAG	CCTGCTAACG	AAACCTCCAG
10561	GATACGGAGG	CGGGTCGTTT	TTTGGCCTTG	GTCGCTGGTC	ATGAAAAACT	AGTAAGCGCG
10621	GAAAGCGGCC	GCCCGCGATG	GCTCGCTGCC	GTAGTCTGGA	GAAAGAATCG	CCAGGGTTGC
10681	GTTGCGGTGT	GCCCCGGTTC	GAGCCTCAGC	GCTCGGCGCC	GGCCGGATTC	CGCGGCTAAC
10741	GTGGGCGTGG	CTGCCCCGTC	GTTTCCAAGA	CCCCTTAGCC	AGCCGACTTC	TCCAGTTACG
10801	GAGCGAGCCC	CTCTTTTTTT	TTCTTGTGTT	TTTGCCAGAT	GCATCCCGTA	CTGCGGCAGA
10861	TGCGCCCCA	CCCTCCACCA	CAACCGCCCC	TACCGCAGCA	GCAGCAACAG	CCGGCGCTTC
10921	TGCCCCCGCC	CCAGCAGCAG	CCAGCCACTA	CCGCGGCGGC	CGCCGTGAGC	GGAGCCGGCG
10981	TTCAGTATGA	CCTGGCCTTG	GAAGAGGGCG	AGGGGCTGGC	GCGGCTGGGG	GCGTCGTCGC
11041	CGGAGCGGCA	CCCGCGCGTG	CAGATGAAAA	GGGACGCTCG	CGAGGCCTAC	GTGCCCAAGC
11101	AGAACCTGTT	CAGAGACAGG	AGCGGCGAGG	AGCCCGAGGA	GATGCGCGCC	TCCCGCTTCC
11161	ACGCGGGGCG	GGAGCTGCGG	CGCGGCCTGA	ACCGAAAGCG	GGTGCTGAGG	GACGAGGATT
11221	TCGAGGCGGA	CGAGCTGACG	GGGATCAGCC	CCGTGCGCGC	GCACGTGGTC	GNGGNCAACC
11281	TGGTCACGGC	GTACGAGCAG	ACCGTGAAGG	AGGAGAGCAA	CTTCCAAAAA	ТССТТСААСА
11341	ACCACGTGCG	CACCTTGATC	GCGCGCGAGG	AGGTGACCCT	GGGCCTGATG	САССТСТССС
	ACCTGCTGGA					
11461	TGGTGGTGCA	GCACAGTCGG	GACAACGAGA	CGTTCAGGGA	GGCGCTGCTG	AATATCACCC
11521	AGCCCGAGGG	CCGCTGGCTC	CTGGACCTGG	TGAACATTTT	GCAGAGCATC	GTGGTGC AGG
	AGCGCGGCT					
	GCAAGTACTA					
11701	AGATCGACGG	GTTTTACATG	CGCATGACCC	TGAAAGTGCT	GACCCTGAGC	CACCATCTCC
	GGGTGTACCG					
11821	GCGACCAGGA	GCTGATGCAC	AGCCTGCAGC	GCCCCCTCAC	CGGGGGGGGG	ACCCACCCCC
	AGAGCTACTT					
	CTGCCGGCGG					
12001	TGGAAGACTG	·ATGGCGGGAC.	ССТАТТТТТС	CTAGATGCAG	CAACAGCCAC	CCCCCCCCC
	TCCTGATCCC					
12121	CGATTGGACC	CAGGCCATGC	AACGCATCAT	GGCGCTGACG	ACCCGCAATC	CCCAACCCTT
	TAGACAGCAG					
	CTCGAACCCC					
	CATCCGCGGT					
	CAACAGCACC					
	GTCGCAGCGC					
	CTTCCTGAGC					
	CAGCGCGCTG					
	GGACTACTTC					
	CAAGAACTTG					
	GAGCCTGCTG					
12781	CGGCAGCGTG	AGCCGCGACT	CGTACCTGGG	CTACCTCCTT	AACCTCTACC	CCCACCCCAT
	CGGACAGGCG					
	GGGCCAGGAG					
	GCAGAAGATC					
13021	GCAGCAGAGC	GTGGGGCTGT	TCCTGATGCA	CACCGAGGAG	ACCCCCACCC	CCCCCCTCCA
13081	CATGACCGCG	CGCAACATGG	AGCCCAGCAT	GTACGCCCCC	A A C C C C C C C C T	TCATCA ATTA A
13141	GCTGATGGAC	TACTTCCATC	GGGCGGCCCC	CATCAACTCC	CVCACCCGI	CCAACAATAA
	CTTGAACCCG					
	CCCCAACGAC					
13321	AACCAATGCC	GTGTGGAAGA	AAGAGGGGGG	GGACCGCCCC	CCCTCCTCCC	CCCTCTCCAGG
13381	TCGCGCGGGT	GCTGCCGCGG	CGCTCCCCA	GGCCGCCACC	CCCTTCCCCA	CCCTGTCCGG
13441	TTCGCTGAAC	ACCGTCCCCA	GCAGCGAGCT	GGCTCGCCTG	ACCCCACCCCA	CCCTGCCCTT
13501	CGAGGAGGAG	TACCTGAACG	VCACCAVACT	CACCCCAC	CCCCACCCCC	ACCIGCIGG
	TAACGGGATA					
13621	CAGGGACGAG	CCCCGACCTA	CCACCCAGAI	CVCCCCTGG	THE TAKEN OF THE TAKEN	ACCACGAGCA
13681	GC GGGGACTG	CTCTCCCACC	ALCAGGAGG	CYCCCGIVGY	ACCACCOMOM	TCCACAGGCA
13741	TGGGAGTGGT	GGTAACCCCT	4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	CGCCGACGAC	VACUACGIGI.	TGGWCTTGGG
13801	ATCTGAAAAA	ATAAAACACC	GTACTCACC1	AGGCCATGGC	CACCACCCACC	CCMMCMMCMC
13861	TGTTGTTTGT	AGTACTATCA	TGAGGCGCGT	CTACCCAIGGC	CCTCCTGCGIG	CGIICIICIC
			- 0110000001	CIACCCGGAG		CCICGIACGA

FIG. 7D

13921	GAGCGTGATG	CAGCAGGCGG	TGGCGGCGGC	GATGCAGCCC	CCGCTGGAGG	CGCCTTACGT
13981	. GCCCCCGGCGG	TACCTGGCGC	CTACGGAGGG	GCGGAACAGC	ATTCGTTACT	CGGAGCTGGC
14041	. ACCCTTGTAC	GATACCACCC	GGTTGTACCI	GGTGGACAAC	AAGTCGGCAG	ACATCGCCTC
14101	. GCTGAACTAC	CAGAACGACC	ACAGCAACTT	CCTGACCACC	GTGGTGCAGA	ACAACGATTT
14161	CACCCCCACG	GAGGCCAGCA	CCCAGACCAT	CAACTTTGAC	GAGCGCTCGC	GGTGGGGCGG
14221	CCAGCTGAAA	ACCATCATGC	ACACCAACAT	GCCCAACGTG	AACGAGTTCA	TGTACAGCAA
14281	CAAGTTCAAG	GCGCGGGTGA	TGGTCTCGCG	CAAGACCCCC	AACGGGGTGG	ATGATGATTA
14341	TGATGGTAGT	CAGGACGAGC	TGACCTACGA	GTGGGTGGAG	TTTGAGCTGC	CCGAGGGCAA
14401	CTTCTCGGTG	ACCATGACCA	TCGATCTGAT	GAACAACGCC	ATCATCGACA	ACTACTTGGC
14461	GGTGGGGGCGG	CAGAACGGGG	TGCTGGAGAG	CGACATCGGC	GTGAAGTTCG	ACACGCGCAA
14521	CTTCCGGCTG	GGCTGGGACC	CCGTGACCGA	GCTGGTGATG	CCGGGCGTGT	ACACCAACGA
14581	GGCCTTCCAC	CCCGACATCG	TCCTGCTGCC	CGGCTGCGGC	GTGGACTTCA	CCGAGAGCCG
14641	CCTCAGCAAC	CTGCTGGGCA	TCCGCAAGCG	GCAGCCCTTC	CAGGAGGGCT	TCCAGATCCT
14701	GTACGA:GGAC	CTGGAGGGG	GCAACATCCC	CGCGCTCTTG	GATGTCGAAG	CCTACGAGAA
14761	AAGCAA:GGAG	GATAGCACCG	CCGCGGCGAC	CGCAGCCGTG	GCCACCGCCT	CTACCGAGGT
14821	GCGGGGCGAT	AATTTTGCTA	GCGCTGCGGC	AGCGGCCGAG	GCGGCTGAAA	CCGAAAGTAA
14881	GATAGTCATC	CAGCCGGTGG	AGAAGGACAG	CAAGGACAGG	AGCTACAACG	TGCTCGCGGA
14941	CAAGAAAAC	ACCGCCTACC	GCAGCTGGTA	CCTGGCCTAC	AACTACGGCG	ACCCCGAGAA
15001	GGGCGTGCGC	TCCTGGACGC	TGCTCACCAC	CTCGGACGTC	ACCTGCGGCG	TGGAGCAAGT
15061	CTACTGGTCG	CTGCCCGACA	TGATGCAAGA	CCCGGTCACC	TTCCGCTCCA	CGCGTCAAGT
15121	TAGCAACTAC	CCGGTGGTGG	GCGCCGAGCT	CCTGCCCGTC	TACTCCAAGA	GCTTCTTC A A
15181	CGAGCA_GGCC	GTCTACTCGC	AGNAGCTGCG	CGCCTTCACC	TCGCTCACGC	ACCTCTTCAA
15241	CCGCTTCCCC	GAGAACCAGA	TCCTCGTCCG	CCGCCGCGCC	CACCATTACC	ACCGTCAGTG
15301	AAAACGTTCC	TGCTCTCACA	GATCACGGGA	CCCTGCCGCT	GCGCAGCAGT	ATCCGGGGAG
15361	TCCAGC GCGT	GACCGTCACT	GACGCCAGAC	GCCGCACCTG	CCCCTACGTC	TACAACCCCC
15421	TGGGCGTAGT	CGCGCCGCGC	GTCCTCTCGA	GCCGCACCTT	CTAAAAAATG	TCCATTCTCA
15481	TCTCGC CCAG	TAATAACACC	GGTTGGGGCC	TGCGCGCGCC	CAGCAAGATG	TACGGAGGCG
15541	CTCGCCAACG	CTCCACGCAA	CACCCCGTGC	GCGTGCGCGG	GCACTTCCGC	GCTCCCTGGG
15601	GCGCCC TCAA	GGGCCGCGTG	CGCTCGCGCA	CCACCGTCGA	CGACGTGATC	GACCAGGTGG
15661	TGGCCGACGC	GCGCAACTAC	ACGCCCGCCG	CCGCGCCCGT	CTCCACCGTG	GACCCCCTCA
15721	TCGACAGCGT	GGTGGCCGAC	GEGEGECGGT	·ACGCCCGCAC	CAAGAGCCGC	CGCCGCCCA
15781	TCGCCC GGCG	GCACCGGAGC	ACCCCCCCCA	TGCGCGCGGC	GCGAGCCTTG	CTCCCCACCC
15841	CCAGGC GCAC	GGGACGCAGG	GCCATGCTCA	GGGCGGCCAG	ACGCGCGCCC	TCCGCCAGCA
15901	GCAGCG*CCGG	CAGGACCCGC	AGACGCGCGG	CCACGGCGGC	GGCGGCGGCC	ATCCCCACCA
15961	TGTCCC GCCC	GCGGCGCGC	AACGTGTACT	GGGTGCGCGA	CGCCGCCACC	GGTGTGCGCG
16021	TGCCCGTGCG	CACCCGCCCC	CCTCGCACTT	GAAGATGCTG	ACTTCCCCAT	CTTCATCTCT
16081	CCCAGC GGCG	AGGAGGATGT	CCAAGCGCAA	ATACAAGGAA	GAGATGCTCC	ACCTC ATCCC
16141	${\tt GCCTGA\_GATC}$	TACGGCCCCG	CGGCGGCGGT	GAAGGAGGAA	AGAAAGCCCC	GCAAACTGAA
16201	GCGGGT CAAA	AAGGACAAAA	AGGAGGAGGA	AGATGACGGA	CTGGTGGAGT	TITCTCCCCCA
16261	GTTCGC CCCC	CGGCGGCGCG	TGCAGTGGCG	CGGGCGGAAA	CTCADACCCC	TECTECCCCC
16321	CGGCAC CACG	GTGGTCTTCA	CGCCCGGCGA	GCGTTCCGGC	TCCCCCTCCA	ACCCCTCCTA
16381	${\tt CGACGA\_GGTG}$	TACGGGGACG	AGGACATCCT	CGAGCAGGCG	GTCGAGCGTC	TCCCCCACTT
16441	${\tt TGCGTA.CGGC}$	AAGCGCAGCC	GCCCCGCGCC	CTTGAAAGAG	GAGGCGGTGT	CCATCCCCCT
16501	${\tt GGACCA\_CGGC}$	AACCCCACGC	CGAGCCTGAA	GCCGGTGACC	CTGCAGCAGG	TCCTACCCAC
16561	$\operatorname{CGCGGC}\operatorname{\mathbf{GCCG}}$	CGCCGGGGCT	TCAAGCGCGA	GGGCGGCGAG	CATCTCTACC	CCACCATCCA
16621	$\mathtt{GCTGAT}\mathbf{GGTG}$	CCCAAGCGCC	AGAAGCTGGA	GGACGTGCTG	GAGCACATCA	ACCTCCACCC
16681	$\mathtt{CGAGGT}_{\mathbf{G}}\mathtt{CAG}$	CCCGAGGTCA	AGGTGCGGCC	CATCAAGCAG	CTCCCCCCC	CCCTCCCCCC
16741	GCAGAC CGTG	GACATCAAGA	TCCCCACGGA	GCCCATGGAA	ACCCACACCC	ACCIGGGCGI
16801	GCCCAGCACC	AGCACCATGG	AGGTGCAGAC	GCATCCCTCC	ACCCAGACCG	CACCUUCCAC
16861	CAGCAC'TCGC	CGAAGACGCA	AGTACGGCGC	GGCCAGCCTG	CTCATCCCCA	VCWVCCCCCCC
16921	TGCATC CTTC	CATCATCCCC	ACGCCGGGCT	ACCGCGCAC	CIGAIGCCCA	ACTACGCGGC
16981	CCAGCAGCCG	CCGCCGCAAG	ACCACCACCC	CCCCCCCTCC	TCCCACCCCC	CCCACCACCA
17041	CCGCGACTTC	CGCCTTGGTG	CGGAGAGTGT	ATCGCAGCGC	CCCCAGCCGC	CUCAGCAGCA
17101	CGCGCGCGCG	CTACCACCCC	AGCATCGCCA	TTTCCCAGCGG	GCGCGAGCCI.	CIGACCCTGC
17161	GCCCTCACAT	GCCGCCTCCC	CGTCCCCATT	ACCCCCTACC	COCCOCCACT	CCCCCCCCCCC
17221	AGAAGGCTGA	CGGGGAACGC	GCTGCGTCGC	CATCACCTACC	GCCCCCCCC	GCCGCGCCGT.
17281	AAGCGGTTGG	GGGGAGGCTT	CCTGCCCCCC	CTCATCCACC	TCATCCCCC	CCCCATCAGC
17341	GCGATCCCCG	GCATAGCTTC	CGTGGCGCGTG	CAGGCCTCTC	YCCCCC YCMC	ACACACT CGGG
					CGCCACTG	AAAAAAAAA

17101						
1/401	AAGCATGGAT	TTGTAATAAA	AAAAAAAA'I'G	GACTGACGCT	CCTGGTCCTG	TGATGTGTGT
	TTTTAGATGG					
	ATGGGCACCT					
	AGTCTCTGGA					
17641	TGGAACAGCA	GCACAGGGCA	GGCGCTGAGG	GAAAAGCTGA	AAGAACAGAA	CTTCCAGCAG
	AAGGTGGTTG					
	GTGCAGAAAC					
	CCCCAGGTGG					
	GACGCGGAGG					
	AAACTGGGCC					
	AGCAGCAGCC					
	CCCCTGCCGC					
	CAGAGCACTC					
	TATTAAAAGA					
	CAGAAGGAGG					
	TGCCCCAGTG					
	GTCTGGTGCA					
	ACCCCACGGT					
18481	GCTTCGTGCC	CGTGGACCGC	GAGGACAACA	CCTACTCGTA	CAAAGTGCGC	TACACGCTGG
18541	CCGTGGGCGA	CAACCGCGTG	CTGGACATGG	CCAGCACCTA	CTTTGACATC	CGCGGCGTGC
	TGGACCGGGG					
	AGGGAGCTCC					
	AAACACACAC					
	AAATTGGAAC					
	AACCAGAACC					
	GAGCTCTTAA					
	ATGAAAAAGG					
	TCGACATAGA					
	ATAAAGCAGA					
	TGGTATACAA					
	TGCCCAACAG					
	ACAGCACTGG					
	ATTTGCAAGA					
	${\tt GAACCCGGTA}$					
19441	TCATCGAAAA	CCATGGTGTG	GAGGATGAAT	TGCCAAACTA	TTGCTTCCCC	TTGGACGGCT
19501	${\tt CTGGCACTAA}$	CGCCGCATAC	CAAGGTGTGA	AAGTAAAAGA	TGGTCAAGAT	GGTGATGTTG
19561	AGAGTGAATG	GGAAAATGAC	GATACTGTTG	CAGCTCGAAA	TCAATTATGT	AAAGGTAACA
	$\mathtt{TTTTCGCCAT}$					
	TGGCCCTGTA					
	ACACCAACAC					
	ACCTCAACAT					
	ACCACCGCAA					
	CCTTCCACAT					
	GGTCCTACAC					
	TAGGCAACGA					
20101	CCACCTTCTT	CCCCATGGCG	CACAACACCG	CCTCCACGCT	CGAGGCCATG	CTGCGCAACG
	ACACCAACGA					
	CGGCCAACGC					
	GATGGTCCTT					
	CCTACTTCGT					
20401	CCTTCAAGAA	GGTCTCCATC	ACCTTCGACT	CCTCCGTCAG	CTGGCCCGGC	AACGACCGCC
	TCCTGACGCC					
	CCCAGTGCAA					
20581	GCTACCAGGG	CTTCTACGTG	CCCGAGGGCT	ACAAGGACCG	CATGTACTCC	TTCTTCCGCA
	ACTTCCAGCC					
	TCACCCTGGC					
	GCCAGGGCCA					
20821	CCAGCGTCAC	CCAGAAAAG	ТТССТСТССС	ACCGGGTCAT	GTGGCGCATC	CCCddcacca
				COOGIONI	OFGCGCVIC	CCCTTCTCCA

21661	GCTTCC TCAA	ጥርርርር እርጥርር	CCCTA CTTTC	CCTCCCACCC	CCCCCCCAmc	רא רא א רררריא
	GCAACTTCAT					
	CCGCCCACGC					
	ATGTTGTCTT					
	AAGCCGTCTA					
	CTTCTTGCAA					
	TGGGCTGCGG					
21241	CGCACA_AGCT	GGCCTGCGCC	ATCGTGAACA	CGGCCGGCCG	CGAGACCGGG	GGCGAGCACT
	GGCTGGCCTT					
	TCTCGGACGA					
	GCGCCCTGGC					
	GTCCGC GCTC					
	GGCCCGACCG					
	GCATGC TCCA					
	CCGCCTTCGA					
21781	ATTCATAATA	AACAGCACAT	GTTTATGCCA	CCTTCTCTGA	GGCTCTGACT	TTATTTAGAA
21841	ATCGAAGGGG	TTCTGCCGGC	TCTCGGCATG	GCCCGCGGGC	AGGGATACGT	TGCGGAACTG
21901	GTACTTGGGC	AGCCACTTGA	ACTCGGGGAT	CAGCAGCTTG	GGCACGGGGA	GGTCGGGGAA
21961	CGAGTCGCTC	CACAGCTTGC	GCGTGAGTTG	CAGGGCGCCC	AGCAGGTCGG	GCGCGGAGAT
	CTTGAAATCG					
	GCACTGGAAC					
	GCCCTCCACG					
	CCGCCCCATG					
	CATCATCTGG					
	CTGGCGGAAG					
	AGAGAACTGG					
	CAGCTGCACC					
	CTTCAGCGCG					
	GATCATCACG					
	CCACAGCGCG					
22681	GAAGCCCTGC	ACCAACCGGIGC	CCVACA TO	CTIGIGGGG	- WICTGGGWGT	GCGAGIGCAC
	CGGGATGCCG					
	CTGCTCGGGC					
	CAGCAGCGTC					
	GTTCTTCACC					
	CAGGGTCTCA					
	GCCCACGGCC					
	TTGCAAAGGC					
	TGTGCTGGGA					
	CGAGACCACG					
	GCGGTTCGGC					
	CTGCTCTGAC					
	CATGGAGACT					
	GAACCAGCAG					
	GGCCCCAGAC					
	CGCGGAGCAC					
23641	GCAGCCAGAG	CAGGAAGCAG	AGAACGAGCA	GAACCAGGCT	GGGCACGAGC	ATGGCGACTA
23701	CCTGAGCGGG	GCAGAGGACG	TGCTCATCAA	GCATCTGGCC	CGCCAATGCA	TCATCGTCAA
	GGACGCGCTG					
	CGAGCGCAAC					
	GCCCAACCCG					
	CCACCTCTTT					
24001	CGACGCCCTG	CTCAACCTGG	GCCCCGGCGC	CCGCCTACCT	GATATCACCT	CCTTGGAAGA
	GGTTCCCAAG					
	AGGAAGCGGA					
	GCGCCTGGCG					
24241	CCTGCCCCCC	AAGGTCATGA	GCGCCGTCAT	GGACCAGGTG	CTCATCAAGC	GCGCCTCGCC
	CCTCTCGGAG					
						_

	CGACGAGCAG						
24421	GCGCAAGCTC	ATGATGGCCG	TGGTCCTGGT	GACCGTGGAG	CTGGAGTGTC	TGCGCCGCTT	
24481	CTTTGCCGAC	GCGGAGACCC	TGCGCAAGGT	CGAGGAGAAC	CTGCACTACC	TCTTCAGGCA	
24541	CGGGTTCGTG	CGCCAGGCCT	GCAAGATCTC	CAACGTGGAG	CTGACCAACC	TGGTCTCCTA	
24601	CATGGGCATC	CTGCACGAGA	ACCGCCTGGG	GCAAAACGTG	CTGCACACCA	CCCTGCGCGG	
24661	GGAGGCCCGC	CGCGACTACA	TCCGCGACTG	CGTCTACCTG	TACCTCTGCC	ACACCTGGCA	
	GACGGGCATG						
	GCTCCTGCAG						
24841	GGACCTGGCC	GACCTCATCT	TCCCCGAGCG	ССТСССССТС	ACCCTCCCCA	ACCCCCTCCC	
	CGACTTTATG						
	GATCCTGCCC						
	GTGCCCCCCG						
	CCACTCGGAC						
	CAACCTCTGC						
25201	GATCATCGGC	ACCOUNTCGACT	TGCAAGCCCC	CCCCCAACCCC	CAGCIGCIGA	CCCCCCCCCC	
	ACTCACCCCG						
	TCCCTTCGAG						
	CTGCGTCATC						
	AGAATTTCTG						
	CAACCCCAGC						
	CGCCGCCGGA						
	AAGACTGGGA						
	ACGAGGTGGA						
	AAGCAAGCAG						
	GTAGGTGGGA						
	GCAGGGGATAC						
						TGAACTTCCC -	-
	CCGCAACATC						
	GGCAGAAACC						
	CGGCAGGTGG						
	GGATCTTTCC						
	AAGTCAAGAA						
	ACCAACTTCA						
	CTCTTAAAGA						
	CTGCGCCCTT						
	CCAGCCCCAG						
	GCTCAGTGCC						
	GATACTCCTA						
	TTGGCCCGCC						
	AGACGCCCAG						
26761	CCTGTGTCGT	CACCGCCCCG	CTCAGGGTAT	AAAGCGGCTG	GTGATCCGAG	GCAGAGGCAC	
	ACAGCTCAAC						
	ACTCGCCGGA						
	TTCGTCCTCG						
27001	TCCCTCGGTN	TACTTCAACC	CCTTCTCCGG	CTCCCCGGC	CACTACCCGG	ACGAGTTCAT	
27061	CCCGAACTTC	GACGCCATCA	GCGAGTCGGT	GGACGGCTAC	GATTGAATGT	CCCATGGTGG	
27121	CGCAGCTGAC	CTAGCTCGGC	TTCGACACCT	GGACCACTGC	CGCCGCTTCC	GCTGCTTCGC	
	TCGGGATCTC						
	CCACGGAGTG						
	CCAGCGACCG						
	CTGCAACCAC						
	AAGCTGAGAT						
	TGTTCTTCAC						
27541	TCACCTGGCT	GTTCCAGGGC	TCCCCGATCG	CCGTTGTCAA	CCACTGCGAC	AACGACGGAG	
27601	TCCTGCTGAG	CGGCCCTGCC	AACCTTACTT	TTTCCACCCG	CAGAAGCAAG	CTCCAGCTCT	
27661	TCCAACCCTT	CCTCCCCGGG	ACCTATCAGT	GCGTCTCAGG	ACCCTGCCAT	CACACCTTCC	
27721	ACCTGATCCC	GAATACCACA	GCGCCGCTCC	CCGCTACTAA	CAACCAAACT	ACCCACCAAC	
27781	GCCACCGTCG	CGACCTTTCC	TCTGAATCTA	ATACCACTAC	CGGAGGTGAG	CTCCGAGGTC	
				_			

FIG. 7H

27041	araar raama	maaaa mmma a		~~~~~~~		
	GACCAACCTC					
	TAGTTGCGGG					
	TGGTGC TGTG					
	GGTGGC GGTG					
28081	CGATCCCTGC	TTGCATTTCA	ATCCCAACAA	ATGCCAGCTG	AGTTTTCAGC	CCGATGGCAA
28141	TCGGTGCGCG	GTACTGATCA	AGTGCGGATG	GGAATGCGAG	AACGTGAGAA	TCGAGTACAA
	TAACAAGACT					
	CACCGTCTCT					
	TGCGCACATG					
	GAAGGAGAAC					
	TATCGTGTGC					
	AGAGAAACAG					
	AAATTTTTTAAAA					
	AACCCTTTAT					
28681	ATGGTATTTT	TATAGAACCA	ACACTGATCC	AGTTAAACTT	TGTAAGGGTG	AATTGCCGCG
28741	TACACATAAA	ACTCCACTTA	CATTTAGTTG	CAGCAATAAT	AATCTTACAC	TTTTTTCAAT
	TACAAAACAA					
	TTATACTGTT					
	AAAGCCCACT					
	AACACTTGCT					
	GATCGCCCTG					
	CATGATTGGC					
	GTACTATGCC					
	TGTTGAATTT					
	$\mathtt{TACCTCTGCT}$					
	TACACTGAAA					
	TGATCA AACT					
29461	TTATCA_ATGC	AATGGCACTG	ATCTGATACT	ACTCAATGTC	ACGAAAGCAT	ATGGTGGCAG
29521	TTATTATTGC	CCTGGACAAA	ACACTGAAGA	AATGATTTTT	TACAAAGTGG	AAGTGGTTGA
29581	TCCCAC TACA	CCACCCACCA	CCACAACTAT	TCATACCACA	CACACAGAAC	AAACACCAGA
	GGCAAC.AGAA					
	TACACC CGAT					
	ATTAGCAGTC					
	ACAAAAATCA					
	GTTAGCGCTC					
	GTTAGCTTTA					
	GAAGGTGCTC					
	TGGAATGTAA					
	CAGAATGGGT					
	$\mathtt{CATAGT'TTTA}$					
	ACCACACAGA					
30301	GTTGCCAGCT	CGTCTGGGGT	CCGAGTGGCA	TTTTTGATGT	TGGCCCCATC	TAGCAGTCCC
30361	ACTGCTAGTA	CCAATGAGCA	GACTACTGAA	TTTTTGTCCA	CTGTCGAGAG	CCACACCACA
30421	GCTACCTCCA	GTGCCTTCTC	TAGCACCGCC	AATCTCTCCT	CGCTTTCCTC	TACACCAATC
	AGCCCCGCTA					
	GGCATGCAAT					
30601	CTCTACTACA	中で中中で中ででで	CCCCATTCCC	AACGCGCACC	GCAAGCCCCC	CMACAACCCC
30661	ATCGTTATCG	GCCAGCCGGA	CCCCCTTCAC	CTCCAACCCC	CUCUNACCA	CIACAAGCCC
	TCTTTTACAG					
	CTGCCTCCTC					
	TGGGCCCTTC					
	AGTCTGCCTG					
	CCTGCGCCAC					
31021	ATAAGCATGC	GGGCTCTGCT	ACTINICGCG	CTTCTGCTGT	TAGTGCTCCC	CCGTCCCGTC
31081	GACCCCCGGT	CCCCCACTCA	GTCCCCGAG	GAGGTTCGCA	AATGCAAATT	CCAAGAACCC
31141	TGGAAATTCC	TCAAATGCTA	CCGCCAAAAA	TCAGACATGC	ATCCCAGCTG	GATCATGATC
	ATTGGGATCG					
	GACTTTGGTT					

	CAGCATCA_AC					
31381	ATATTAGACT	ATGAGGCCGA	GCCACAGCGA	CCCATGCTCC	CCGCTATTAG	TTACTTCAAT
31441	CTAACCGGCG	GAGATGACTG	ACCCACTGGC	CAATAACAAC	GTCAACGACC	TTCTCCTGGA
31501	CATGGACGGC	CGCGCCTCGG	AGCAGCGACT	CGCCCAACTT	CGCATTCGTC	AGCAGCAGGA
31561	GAGAGCCGTC	AAGGAGCTGC	AGGACGGCAT	AGCCATCCAC	CAGTGCAAGA	GAGGCATCTT
31621	CTGCCTGGTG	AAACAGGCCA	AGATCTCCTA	CGAGGTCACC	CAGACCGACC	ATCGCCTCTC
31681	CTACGAGC TC	CTGCAGCAGC	GCCAGAAGTT	CACCTGCCTG	GTCGGAGTCA	ACCCCATCGT
	CATCACCC.AG					
31801	CCGACTGCGT	CCACACTCTG	ATCAAGACCC	TCTGCGGCCT	CCGCGACCTC	CTCCCCATGA
31861	ACTAATCA CC	CCCTTATCCA	GTGAAATAAA	GATCATATTG	ATGATGATT	ΑΔΑΓΑΔΑΔΑΔ
31921	AATAATCA'TT	TGATTTGAAA	TAAAGATACA	ATCATATTGA	ТСАТТТСАСТ	מממממחמות
31981	TAAAGAATCA	CTTACTTGAA	ATCTGATACC	AGGTCTCTGT	CCDTCTTTTTTT	TCCCAACACC
32041	ACCTCACTCC	ССТСТТСССА	GCTCTGGTAC	TGCAGGCCCC	CCCCCCCTCC	A A A COURCEOUC
32101	CACACGCTGA	AGGGGATGTC	AAATTCCTCC	TGTCCCTCAA	TCTTC ATTTT	ATTOTICETO
32161	AGATGTCC.AA	AAAGCGCGTC	CGGGTGGATG	ATCACTTCCA	CCCCCTCTAC	CCCTACCATC
32221	CAGACAACGC	ACCGACCGTG	CCCTTCATCA	ACCCCCCCTT	CCCCGICIAC	CCCIACGAIG
32281	AAGAGAAGCC	CCTGGGGGGTG	TTCTCCCTCC	CACTCCCCTT	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ACCAACAACC
32341	GGGAAATCAC	CCTCAACCTC	CCACACCCCC	TCCACCTCCA	CCCCGICACC	ACCAAGAACG
32401	CCAACACGGC	CACCAACCCC	CCCCCCCCC	TGGACCICGA	CICGICGGGA	AMACTCATCT
	AAACTGCTGC					
	TAGCAGTATT					
32521	CAAATAAGTT	CTTCACACTII	AACACIIIAG	AUCCUCUUMA C	TGGAAACGGT	CTTCAGACTT
32641	CAGTAAAAAC	ACACAAAACCC	CAACIAACIC	ALCCICITAC	ATTCAGCTCA	AATAGCATCA
32701	ATATAAGCCT	AGACAAAGGG	CIAIAIAIIA	ACTCCAGTGG	AAACAGAGGA	CTTGAGGCTA
32761	ATGGCTTAGA		CIAGILLIA	ACGGIAAIGC	1A11GCAACA	TATATTGGAA
32221	TTGGAGCAGG	CIMIGGMICI	TATGATAGIG	AIGGAAAAAC	AAGACCCGTA	ATTACCAAAA
32881	TAAGTTTTGA	CUCCCCUCCU	CCCOTTCACA	CTCCAAAGC	1G1CAAAC1A	GGCACAGGTT.
32001	TTTGGACTAC	CICCGCIGGI	ACCCTT GWCWG	CIGGAAACAA	ACAGGATGAC	AAGCTAACAC
	TTACTCTCTG					
33061	TTACTGTAGG	TCTTACAAAA	1 GCGGIAGIC	AAATACTAGG	CACTGTGGCA	GIGGCGGCIG
33101	TTAGATTTGA	MUCCCAUCCE	WAITCHALLY	ATGACACAGT	CAAAAGCGCC	ATAGTTTTCC
33121	ACTTTAGGGA	CCCACACACC	A CECA A A CEC	TAGCCTT TAGC	AATGGTAGGT	GATTACTGGA
	CAAATATAGG					
	AGGTATATTT					
33361	CTGATGAAAA	ACTOGAGAA	ACTACTATEC	CAAIGACACI	AACCATAACT	TTCAATGGCA
33/121	CTGGAGACTA	MARCACAACC	A A M A M M A C C M	CCTACTCTAT	GACTTTTACA	TGGCAGTGGA
	TCGCCCAGGA					
	GGAAACTCTG					
	ACTCGAGCAG					
33661	CGCACAGCCT	TIMITITIC	TCCACCCTCC	CAGGACATGG	AATACACCAC	CCTCTCCCCC
22771	CGCACAGCC I	CACACCATCIG	AATGCCATTG	GTGATGGACA	TGCTTTTGGT	CTCCACGTTC
	CACACAGTTT					
	TCCCGCATCT					
33041	GTTATCTGGA	AGAAGCAGAA	GAGCGGCGGT.	GGGAATCATA	GTCCGCGAAC	GGGATCGGCC
220C1	GGTGGTGTCG	CATCAGGCCC	CGCAGCAGTC	GCTGCCGCCG	CCGCTCCGTC	AAGCTGCTGC
3330T	TCAGGGGGTT	CGGGTCCAGG	GACTCCCTCA	GCATGATGCC	CACGGCCCTC	AGCATCAGTC
34UZI	GTCTGGTGCG	GUGGGGCGCAG	CAGCGCATGC	GAATCTCGCT	CAGGTCACTG	CAGTACGTGC
34081	AACACAGGAC	CACCAGGTTG	TTCAACAGTC	CATAGTTCAA	CACGCTCCAG	CCGAAACTCA
34141	TCGCGGGAAG	GATGCTACCC	ACGTGGCCGT	CGTACCAGAT	CCTCAGGTAA	ATCAAGTGGC
342UL	GCTCCCTCCA	GAAGACGCTG	CCCATGTACA	TGATCTCCTT	GGGCATGTGG	CGGTTCACCA
34261	CCTCCCGGTA	CCACATCACC	CTCTGGTTGA	ACATGCAGCC	CCGGATGATC	CTGCGGAACC
34321	ACAGGGCCAG	CACCGCCCCG	CCCGCCATGC	AGCGAAGAGA	CCCCGGATCC	CGGCAATGAC
3438I	AATGGAGGAC	CCACCGCTCG	TACCCGTGGA	TCATCTGGGA	GCTGAACAAG	TCTATGTTGG
34441	CACAGCACAG	GCATATGCTC	ATGCATCTCT	TCAGCACTCT	CAGCTCCTCG	GGGGTCAAAA
345UL	CCATATCCCA	GGGCACGGGG	AACTCTTGCA	GGACAGCGAA	CCCCGCAGAA	CAGGGCAATC
34361	CTCGCACATA	ACTTACATTG	TGCATGGACA	GGGTATCGCA	ATCAGGCAGC	ACCGGGTGAT
	CCTCCACCAG					
24001 24001	ACGGGTGATG	GCGGGACGCG	GCTGATCGTG	TTCTCGACCG	TGTCATGATG	CAGTTGCTTT
34/4L	CGGACATTTT	CGTACTTGCT	GTAGCAGAAC	CTGGTCCGGG	CGCTGCACAC	CGATCGCCGG

FIG. 7J

34801	CGGCGGTCTC	GGCGCTTGGA	ACGCTCGGTG	TTAAAGTTGT	AAAACAGCCA	CTCTCTCAGA	
34861	CCGTGCAGCA	GATCTAGGGC	CTCAGGAGTG	ATGAAGATCC	CATCATGCCT	GATAGCTCTG	
34921	ATCACATCGA	CCACCGTGGA	ATGGGCCAGG	CCCAGCCAGA	TGATGCAATT	TTGTTGGGTT	
34981	TCGGTGACGG	CGGGGGAGGG	AAGAACAGGA	AGAACCATGA	TTAACTTTTA	ATCCAAACGG	
35041	TCTCGGAGCA	CTTCAAAATG	AAGGTCACGG	AGATGGCACC	TCTCGCCCCC	GCTGTGTTGG	
35101	TGGAAAATAA	CAGCCAGGTC	AAAGGTGATA	CGGTTCTCGA	GATGTTCCAC	GGTGGCTTCC	
35161	AGCAAAGCCT	CCACGCGCAC	ATCAGAAACA	AGACAATAGC	GAAAGCGGGA	GGGTTCTCTA	
35221	ATTCCTCAAC	CATCATGTTA	CACTCCTGCA	CCATCCCCAG	ATAATTTTCA	TTTTTCCAGC	
35281	CTTGAATGAT	TCGAACTAGT	TCCTGAGGTA	AATCCAAGCC	AGCCATGATA	AAAAGCTCGC	
35341	GCAGAGCACC	CTCCACCGGC	ATTCTTAAGC	ACACCCTCAT	AATTCCAAGA	TATTCTGCTC	
35401	CTGGTTCACC	TGCAGCAGAT	TGACAAGCGG	AATATCAAAA	TCTCTGCCGC	GATCCCTGAG	
35461	CTCCTCCCTC	AGCAATAACT	GTAAGTACTC	TTTCATATCG	TCTCCGAAAT	TTTTAGCCAT	
35521	AGGACCCCCA	GGAATAAGAG	AAGGGCAAGC	CACATTACAG	ATAAACCGAA	GTCCCCCCA	
35581	GTGAGCATTG	CCAAATGTAA	GATTGAAATA	AGCATGCTGG	CTAGACCCGG	TGATATCTTC	
35641	CAGATAACTG	GACAGAAAAT	CGGGTAAGCA	${\tt ATTTTTAAGA}$	AAATCAACAA	AAGAAAAATC	
35701	TTCCAGGTGC	ACGTTTAGGG	CCTCGGGAAC	AACGATGGAG	TAAGTGCAAG	GGGTGCGTTC	
35761	CAGCATGGTT	AGTTAGCTGA	TCTGTAAAAA	AACAAAAAAT	AAAACATTAA	ACCATGCTAG	
35821	CCTGGCGAAC	AGGTGGGTAA	ATCGTTCTCT	CCAGCACCAG	GCAGGCCACG	GGGTCTCCGG	
35881	CGCGACCCTC	GTAAAAATTG	TCGCTATGAT	TGAAAACCAT	CACAGAGAGA	CGTTCCCGGT	
35941	GGCCGGCGTG	AATGATTCGA	GAAGAAGCAT	ACACCCCCG	GAACATTGGA	GTCCGTGAGT	
36001	GAAAAA.AAGC	GGCCGAGGAA	GCAATGAGGC	ACTACAACGC	TCACTCTCAA	GTCCAGCAAA	
36061	GCGATGCCAT	GCGGATGAAG	CACAAAATTT	TCAGGTGCGT	AAAAAATGTA	ATTACTCCCC	
36121	TCCTGCACAG	GCAGCGAAGC	TCCCGATCCC	TCCAGATACA	CATACAAAGC	CTCAGCGTCC	
36181	ATAGCTTACC	GAGCGGCAGC	AGCAGCGGCA	CACAACAGGC	GCAAGAGTCA	GAGAAAAGAC	
36241	TGAGCTCTAA	CCTGTCCGCC	CGCTCTCTGC	TCAATATATA	GCCCCAGATC	TACACTGACG	
36301	TAAAGGCCAA	AGTCTAAAAA	TACCCGCCAA	ATAATCACAC	ACGCCCAGCA	CACGCCCAGA	
36361	AACCGGTGAC	ACACTCAGAA.	AAATACGCGC_	ACTTCCTCAA_	ACGGCCAAAC	TGCCGTCATT	
36421	TCCGGGTTCC	CACGCTACGT	CATCAAAACA	CGACTTTCAA	ATTCCGTCGA	CCGTTAAAAA	
36481	CATCAC CCGC						
36541	CAAATTCAAA	CAGCTCATTT	GCATATTAAC	GCGCACCAAA	AGTTTGAGGT	ATATTATTGA	
36601	TGATGG (SE	EQ ID NO: 3)	• •				

1	CATCATCAAT	አ አመአመአ ሮሮሙር	AAACTTTTGG	שכככככתשא א	m x m c c x x x m c	7 CCMCMMMC7
	ATTTGGGGAG					
121			GATTGGCCGA			
			CGTGAGGCGG			
	GACGTCAAAC		TTGAACACGG			
	GGAAATGAGG		CGGATGCAAG			
	AATGAGGAAG		AGTAATTTCG			
	GGCCGAGTAG		ATTACGTGGG		ACCGTATTTT	TCACCTAAAT
	TTCCGCGTAC	GGTGTCAAAG	TCCGGTGTTT	TTACGTAGGC	GTCAGCTGAT	CGCCAGGGTA
481	TTTAAACCTG		TCAAGAGGCC		GCCAGCGAGT	
541	CCTCCGCGCC	GCGAGTCAGA	TCTACACTTT	GAAAGATGAG	GCACCTGAGA	GACCTGCCCG
601	GTAATGTTTT	CCTGGCTACT	GGGAACGAGA	TTCTGGAATT	GGTGGTGGAC	GCCATGATGG
661	GTGGCGACCC	TCCTGAGCCC	CCTACCCCAT	TTGAGGCGCC	TTCGCTGTAC	GATTTGTATG
721	ATCTGGAGGT	GGATGTGCCC	GAGAACGACC	CCAACGAGGA	GGCGGTGAAT	GATTTGTTTA
781	GCGATGCCGC		GCCGAGCAGG			
841	CCTCTCTCCA		CCCGGCAGAG			
901	AAGAGCTCGA	CCTGCGCTGC		GCTTGCCTCC		
961	AGGAGGCGAT	TCGAGCTGCA	TCGAACCAGG		TGCGGGCGAA	
1021	TGGACTGTCC		GGACACGGCT			
1081	CTGGAGATAA		TGTGCCCTGT			
	ACAGTAAGTG		TAGTTGGGAA			
	ATTTATGTAT		ATGTGTAGGT			
	TCAGAGTGCA		CCCAGAAATT			
	AGACCAGTTG		CACCGGGCGG			
	CTACAGGGTG		TTTGGACTTG			
	CCACACATGT		AAGGTGATGT			
	ATCCGTGTTG		CGTGGTTTAT			
	GCAGGTGCAG		TCAGTTCAGA			
	GAAGACTTTC		ACAGCTGCTA			
1681	TGGAGATTCT		GCCTCTAGCT			
	AAGGATCAAT		TTTGAGAGAG	-	•	•
	GGCCATCAGT		CCAGAGTATT			
	AGAACTACCG		CTTTTTTGCC			
	CATTTCAGCA		TCTGGACTGC			
1981	TGCCAGCGCC		CTCCGGCTAC			
	ATCCTGAGTC		CCAGGAACAC			
	CAGCAAGAGG		TCGAGAAGAG			
	GCGGAGGAGG		GACTTGTTTC			
	CCAGTGGACG		ATTAAGCGGG			
	AACTGACTGT		AGCCGCAGGC			
	AGTCGCAGGG		GTCTCGGTGA			
	AGACTTGTTG		GAGGATGATT			
	TGGCTCTGAA		AAGTACAAGA			
	GCTACATTTC	AGGGAATGGG	GCCGAGGTGG	AGATCAGTAC	CCAGGAGAGG	GTGGCCTTCA
2581	GATGTTGTAT	GATGAATATG	TACCCGGGGG	TGGTGGGCAT	GGAGGGAGTC	ACCTTTATGA
2641	ACGCGAGGTT	CAGGGGTGAT	GGGTATAATG	GGGTGGTCTT	TATGGCCAAC	ACCAAGCTGA
2701	CAGTGCACGG	ATGCTCCTTC	TTTGGGTTCA	ATAACATGTG	CATCGAGGCC	TGGGGCAGTG
2761	TTTCAGTGAG	GGGATGCAGC	TTTTCAGCCA	ACTGGATGGG	GGTCGTGGGC	AGAACCAAGA
2821	GCAAGGTGTC	AGTGAAGAAA	TGCCTGTTCG	AGAGGTGCCA	CCTGGGGGTG	ATGAGCGAGG
2881	GCGAAGCCAA	AGTCAAACAC	TGCGCCTCTA	CTGAGACGGG	CTGCTTTGTG	CTGATCAAGG
2941	GCAATGCCCA	AGTCAAGCAT	AACATGATCT	GTGGGGCCTC	GGATGAGCGC	GGCTACCAGA
3001	TGCTGACCTG		AACAGCCATA			
3061	CCCGCAAGAC		TTCGAGCACA			
3121	GGTCCCGCCG	AGGCATGTTC				
	TGGAGCCCGA		AGAGTGAGCC			
	TGTGGAAAAT		GATGAATCCA			
	GCAAGCACGC		CCCGTGTGTG			
	ATTTGGTGTT	GTCCTGCAAC				
	GTGAGTAGTG		GTGGAGGGCT			

FIG. 8A

			00/101			
3481	GTTTTTCTGT	GTGTTGCAGC	AGCATGAGCG	GAAGCGCCTC	CTTTGAGGGA	GGGGTATTCA
3541	GCCCTTATCT	GACGGGGCGT	CTCCCCTCCT	GGGCGGGAGT	GCGTCAGAAT	GTGATGGGAT
3601	CCACGGTGGA	CGGCCGGCCC	GTGCAGCCCG	CGAACTCTTC	AACCCTGACC	TACGCGACCC
	TGAGCTCCTC					
3721	TGCGCGGAAT	GGCCCTGGGC	GCCGGCTACT	ACAGCTCTCT	GGTGGCCAAC	TCGACTTCCA
3781	CCAATAATCC	CGCCAGCCTG	AACGAGGAGA	AGCTGCTGCT	GCTGATGGCC	CAGCTCGAGG
3841	CCCTGACCCA	GCGCCTGGGC	GAGCTGACCC	AGCAGGTGGC	TCAGCTGCAG	GCGGAGACGC
3901	GGGCCGCGGT	TGCCACGGTG	AAAACCAAAT	AAAAAATGAA	TCAATAAATA	AACGGAGACG
3961	GTTGTTGATT	TTAACACAGA	GTCTTGAATC	TTTATTTGAT	TTTTCGCGCG	CGGTAGGCCC
4021	TGGACCACCG	GTCTCGATCA	TTGAGCACCC	GGTGGATTTT	TTCCAGGACC	CGGTAGAGGT
4081	GGGCTTGGAT	GTTGAGGTAC	ATGGGCATGA	GCCCGTCCCG	GGGGTGGAGG	TAGCTCCATT
4141	GCAGGGCCTC	GTGCTCGGGG	GTGGTGTTGT	AAATCACCCA	GTCATAGCAG	GGGCGCAGGG
4201	CGTGGTGCTG	CACGATGTCC	TTGAGGAGGA	GACTGATGGC	CACGGGCAGC	CCCTTGGTGT
4261	AGGTGTTGAC	GAACCTGTTG	AGCTGGGAGG	GATGCATGCG	GGGGGAGATG	AGATGCATCT
4321	$\mathtt{TGGCCTGGAT}$	CTTGAGATTG	GCGATGTTCC	CGCCCAGATC	CCGCCGGGGG	TTCATGTTGT
4381	GCAGGACCAC	CAGCACGGTG	TATCCGGTGC	ACTTGGGGAA	TTTGTCATGC	AACTTGGAAG
4441	GGAAGGCGTG	AAAGAATTTG	GAGACGCCCT	TGTGACCGCC	CAGGTTTTCC	ATGCACTCAT
4501	CCATGATGAT	GGCGATGGGC	CCGTGGGCGG	CGGCCTGGGC	AAAGACGTTT	CGGGGGTCGG
4561	ACACATCGTA	GTTGTGGTCC	TGGGTGAGCT	CGTCATAGGC	CATTTTAATG	AATTTGGGGC
	GGAGGGTGCC					
4681	AGATCTGCAT	CTCCCAGGCC	TTGAGCTCGG	AGGGGGGGAT	CATGTCCACC	TGCGGGGCGA
	TGAAAAAAAC					
4801	GCTGGGACTT	GCCGCAGCCG	GTGGGGCCGT	AGATGACCCC	GATGACCGGC	TGCAGGTGGT
	AGTTGAGGGA					
	CGCGCACATG					
	GGAGCTCTTG					
	$\mathtt{TGGAGAGGGT}$					
	CATCTCGATC					
	CAGGCGATGG					
	CAGCGTGGTC					
	CTTCAGGCTC					
	GTAGCAATTG					
5401	CTTACCTTTG	GAAGTGTGTC	CGCAGACGGG	ACAGAGGAGG	GACTTGAGGG	CGTAGAGCTT
5461	GGGGGCGAGG	AAGACGGACT	CGGGGGCGTA	GGCGTCCGCG	CCGCAGCTGG	CGCAGACGGT
5521	CTCGCACTCC	ACGAGCCAGG	TGAGGTCGGG	CCGGTTGGGG	TCAAAAACGA	GGTTTCCTCC
	GTGCTTTTTG					
	AAAGAGGCTG					
	GCGGTCCTCG					
	CACGAAGGAG					
	CAGGGTATGC					
	GTAGGCCACG					
	GTCCTCACTG					
	CTCGAAGGCT					
	GATATTGACG					
	GACGATCTTT					
	CTTGGCGATG					
	GTTGAGCTGC					
	GTCGGGCACG					
	GGCCACCTCG					
	GAAGGGGGC					
	GCCGGGCAGA					
	TTGCCAGTCG					
	GGGGTGCGTG					
	GAGGACGCCG					
	GTACAGCTCG					
	GGCGCGGTAG					
	GAAGATGTTG					
6901	GTCCTGCAGC	TTGGCGACGA	GCTCGGCGGT	GACGAGGACG	TCCAGGGCGC	AGTAGTCGAG

6061	GGTCTCTTGG	7 mc 7 mc mc com	3 CDDC 3 CCDC	aaaammamaa		aaaaamma. a
		AIGAIGICGI	ACTTGAGCTG	GCCCTTCTGC	TTCCACAGCT	CGCGG-T-T-GAG
7021	AAGGAACTCT	TCGCGGTCCT				
	GTAAGAGCCC		ACTGGTTGAC			
	GGGGAGGCG		CGGCCTTGCG			
7201	GCGCACCATG		ACTGGTGCTT			
	CCAGAGCTGG	AAGTCCGTGC	GCTTCTTGTA	GGCGGGGTTG	GGCAAAGCGA	AAGTAACATC
7321	GTTGAAGAGG	ATCTTGCCCG	CGCGGGGCAT	GAAGTTGCGA	GTGATGCGGA	AAGGCTGGGG
7381	CACCTCGGCC	CGGTTGTTGA	TGACCTGGGC	GGCGAGGACG	ATCTCGTCGA	AGCCGTTGAT
7441	GTTGTGCCCG		GTTCCACGAA			
7501	CTTGAGCTCG		GCTCGGCGGG			
7561	GTCGGCGACG		CGCTGAGGAA			
	CTGCAAGCGG		GACGGAACTG			
7681	GCAGTAGAAG		CGCCGTGCCA			
7741	GTGGGCGAGC		GCGGGTCCCC			
	GAGCTGCTTG		CCATCCAGGT			
		CGAGGATGCG	ACCCCATCCC	CAACAACTICC	ACAICGIAGG	A CCA CMMCCA
	GGAATGGCTG		GGAAGTAGAA			
	GTGTTTATAC		AGTGCTCGCA			
	CTGTACCTGG					
			CGAGGAATTT			
	GCTGACGAGC	ACTACGTCCT				
			GGCAGGTCCA			
	GACGAGGGCG		AGCTGTCCAG			
	GGGCAGCGGC		TGACTTGCAG			
	ATGGTACTTG		CGCCGTTGGT			
	CCCCTGGGGC		TGCCCCGTTT			
	AAGCGGCGGC		GCCGGGCGGC			
		CGTCGGCGCC				
		CGACGCGACG				
		GTTTGAACCT				
8701	GCGGCCTGCC	GCAGGATCTC	TTGCACGTCG	CCCGAGTTGT	CCTGGTAGGC	GATCTCGGTC
8761	ATGAACTGCT	CGATCTCCTC	CTCCTGAAGG	TCTCCGCGGC	·CGGCGCGCTC	GACGGTGGCC
8821	GCGAGGTCGT	TGGAGATGCG	GCCCATGAGC	TGCGAGAAGG	CGTTCATGCC	GGCCTCGTTC
8881	CAGACGCGGC		GGCTCCGTCG			
8941	AGGTTGAGCT		CGTGAAGACC			
9001	TTGAGCGTGG		CTCGGTGACG			
9061	ATCTCGCTGA	CGTCGCCCAG				
		ACTGGGAGTT				
		TGGTGGCGCG				
9241	ATCTCTTCCT	CCTCCACTAA				
		GACGCATGGT				
	AAGACGCCGC		CAGGTGGCCG			
		TGCATCTTAT	CAATTGGCCC	CTACCCACTC	CCCCCAACCA	CAGGGAGAGG
9541	TCCACATCCA	CGGGATCCGA	AAACCCCTCA	ACCA ACCCUM	CCACCCACTC	CCIGAGCGIC
		GCCCGGTTTC				
9661	CTCCTCATCA	AGTTGAAGTA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ACACCCCCC	DODDODDAD	GGCGATGCTG
9721	TCCTTCCCCC	AGIIGAAGIA	GGCGGICCIG	AGACGGCGGA	TGGTGGCGAG	GAGCACCAGG
0701		CGGCTTGCTG	GATGCGCAGA	CGGTCGGCCA	TGCCCCAGGC	GTGGTCCTGA
		GGTCCTTGTA				
		CGTGCATGCG				
		CGCGCTCGGC				
		CGACGAAGCG				
10021	ATGACGGACC	AGTTGACGGT	CTGGTGGCCG	GGTCGCACGA	GCTCGTGGTA	CTTGAGGCGC
T0081	GAGTAGGCGC	GCGTGTCGAA	GATGTAGTCG	TTGCAGGTGC	GCACGAGGTA	CTGGTATCCG
10141	ACGAGGAAGT	GCGGCGGCGG	CTGGCGGTAG	AGCGGCCATC	GCTCGGTGGC	GGGGGCGCCG
10201	GGCGCGAGGT	CCTCGAGCAT	GAGGCGGTGG	TAGCCGTAGA	TGTACCTGGA	CATCCAGGTG
10261	ATGCCGGCGG	CGGTGGTGGA	GGCGCGCGG	AACTCGCGGA	CGCGGTTCCA	GATGTTGCGC
10321	AGCGGCAGGA	AGTAGTTCAT	GGTGGCCGCG	GTCTGGCCCG	TGAGGCGCGC	GCAGTCGTGG
10381	ATGCTCTAGA	CATACGGGCA	AAAACGAAAG	CGGTCAGCGG	CTCGACTCCG	TGGCCTGGAG
						•

FIG. 8C

10441	. GCTAAGCGAA	CGGGTTGGGC	TGCGCGTGTA	CCCCGGTTCG	AATCTCGAAT	CAGGCTGGAG
10501	CCGCAGCTAA	CGTGGTACTG	GCACTCCCGT	CTCGACCCAA	GCCTGCTAAC	GAAACCTCCA
10561	GGATACGGAG	GCGGGTCGTT	TTTTGGCCTT	GGTCGCTGGT	CATGAAAAAC	TAGTAAGCGC
10621	GGAAAGCGAC	: CGCCCGCGAT	GGCTCGCTGC	CGTAGTCTGG	AGAAAGAATC	GCCAGGGTTG
10681	CGTTGCGGTG	TGCCCCCGGTT	CGAGCCTCAG	CGCTCGGCGC	CGGCCGGATT	CCGCGGCTAA
10741	CGTGGGCGTG	GCTGCCCCGT	CGTTTCCAAG	ACCCCTTAGC	CAGCCGACTT	CTCCAGTTAC
10801	GGAGCGAGCC	CCTCTTTTTC	TTGTGTTTTT	GCCAGATGCA	TCCCGTACTG	CGGCAGATGC
10861	GCCCCCACCC	TCCACCTCAA	CCGCCCCTAC	CGCCGCAGCA	GCAGCAACAG	CCGGCGCTTC
10921	TGCCCCCGCC	CCAGCAGCAG	CCAGCCACTA	CCGCGGCGGC	CGCCGTGAGC	GGAGCCGGCG
10981	TTCAGTATGA	· CCTGGCCTTG	GAAGAGGGCG	AGGGGCTGGC	GCGGCTGGGG	GCGTCGTCGC
11041	CGGAGCGGCA	CCCGC GCGTG	CAGATGAAAA	GGGACGCTCG	CGAGGCCTAC	GTGCCCAAGC
11101	AGAACCTGTT	CAGAGACAGG	AGCGGCGAGG	AGCCCGAGGA	GATGCGCGCC	でしているとは
11161	ACGCGGGGCG	GGAGC TGCGG	CGCGGCCTGG	ACCGAAAGCG	GGTGCTGAGG	CACCACCATT
11221	TCGAGGCGGA	. CGAGC TGACG	GGGATCAGCC	CCGCGCGCGC	GCACGTGGCC	GCGGCCAACC
11281	TGGTCACGGC	GTACGAGCAG	ACCGTGAAGG	AGGAGAGCAA	CTTCCAAAAA	TCCTTCAACA
11341	ACCACGTGCG	CACGC TGATC	GCGCGCGAGG	AGGTGACCCT	GGGCCTGATG	CACCTGTGGG
11401	ACCTGCTGGA	GGCCATCGTG	CAGAACCCCA	CGAGCAAGCC	GCTGACGGCG	CACCTCTTTC
11461	TGGTGGTGCA	GCACAGTCGG	GACAACGAGA	CGTTCAGGGA	GGCGCTGCTG	AATATCACCC
11521	AGCCCGAGGG	CCGCTGGCTC	CTGGACCTGG	TGAACATTCT	GCAGAGCATC	CTCCTCCACC
11581	AGCGCGGGCT	GCCGC TGTCC	GAGAAGCTGG	CGGCTATCAA	CTTCTCCCTC	CTCACCCTCC
11641	GCAAGTACTA	CGCTA_GGAAG	ATCTACAAGA	CCCCGTACGT	GCCCATAGAC	AACCACCTCA
11701	AGATCGACGG	GTTTT ACATG	CGCATGACCC	TGAAAGTGCT	CACCCTCACC	CACCATCTCC
11761	GGGTGTACCG	CAACG_ACAGG	ATGCACCGCG	CGGTGAGCGC	CACCCCCCCC	CCCCACCTCA
11821	GCGACCAGGA	GCTGA TGCAC	AGCCTGCAGC	GGGCCCTGAC	CEGGGGGGGGG	ACCCACCCC
11881	AGAGCTACTT	TGACA TGGGC	GCGGACCTGC	GCTGGCACCC	CAGGGGCCGGG	CCCTTCCAAC
11941	CTGCCGGCGG	TTCCC CCTAC	GTGGAGGAGG	TCCACCATCA	CAGCCGCCGG	CCCCACMAG
12001	TGGAAGACTG	ATGGC GCGAC	CCTATTTTC	CUNCYACACCAC	CAACGAGGAG	CCCCMCCMC
12061	TCCCGCGATG	CGGGC GGCGC	TGCAGAGCCA	CIAGAIGCAG	A TOTAL A COLCOR	CCCACCAMMC
12121	GACCCAGGCC	ATGCA_ACGCA	TCATCCCCCT	GACGACCCCC	ATTAACTCCT	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
12181	GCAGCCTCAG	GCCAA.CCGGC	TCTCCCCCAT	CCTCCACCCC	CTCCTCCCCAAG	CCTTTAGACA
12241	CCCCACGCAC	GAGAA GGTGC	TCTCGGCCAT	COLGGAGGCC	GIGGIGCCCI	A CCCCCTCGAA
12301	CGGCGACGAG	GCCGG-GCTGG	TOGCCAICGI	CCTCCTCCTC	CCCCTCCCCC	AGGCCATCCG
12361	CACCAACGTG	CAGAC GAACC	TCCACCCCAT	GCIGCIGGAG	CGCGTGGCCC	GCTACAACAG
12421	GCGCGAGCGG	TTCCACCGCG	A CTCCA A CCT	CCCCTCCAT	GIGCGCGAGG	CGGTGTCGCA
12481	GAGCACGCAG	CCCGC CAACG	MCCCCCCCCC	CCACCACCAC	GIGGCGCIGA	ACGCCTTCCT
12541	GCTGCGCTG	ATGGT GGCCG	A CCTCCCGGGG	CAGGAGGAC	TACACCAACT	TCATCAGCGC
12601	CULCUGGGTG	ACCAGTCGCC	AGG1GCCCCA	CAGCGAGGTG	TACCAGTCGG	GGCCGGACTA
12661	CTTCTTCCACCCA	CTGTGGGGCG	TCC ACCCCCCC	CCTCCCCCCC	CTGAGCCAGG	CTTTCAAGAA
12721	CTTGCACCCCC	AACTC GCGCC	TGCAGGCCCC	CCTCCCTCCC	CGCGCGACGG	TGTCGAGCCT
12781	CCTCACCCCC	GACTC GTACC	TGCTGCTGCT	GCTGGTGGCG	CCCTTCACGG	ACAGCGGCAG
128/1	CGTGAGCCGC	GACGA GCAGA	CCMACCACCA	GCTTAACCTG	TACCGCGAGG	CCATCGGGCA
12901	GGAGGACCCC	CCCA A CCCTCC	A CCCCCA CCCA	GATCACCCAC	GTGAGCCGCG	CGCTGGGCCA
12961	GATCCCCCC	GGCAACCTGG	AGGCCACCCT	GAACTTCCTG	CTGACCAACC	GGTCGCAGAA
13001	CACCCCCCCC	CAGTACGCGC	TGAGCACCGA	GGAGGAGCGC	ATCCTGCGCT	ACGTGCAGCA
13021	CCCCCCCAAC	CTGTTCCTGA	TGCAGGAGGG	GGCCACGCCC	AGCGCCGCGC	TCGACATGAC
121/11	CCACMACMAC	ATGGA GCCCA	GCATGTACGC	TCGCAACCGC	CCGTTCATCA	ATAAGCTGAT
12201	CCCCCACTAC	CATCGGGCGG	CCGCCATGAA	CTCGGACTAC	TTACCAACG	CCATCTTGAA
122C1	CCCGCACTGG	CTCCCGCCGC	CCGGGTTCTA	CACGGGCGAG	TACGACATGC	CCGACCCCAA
12221	CGACGGGTTC	CTGTGGGACG	ACGTGGACAG	CAGCGTGTTC	TCGCCGCGCC	CCGCCACCAC
12201	CGTGTGGAAG	AAAGAGGGCG	GGGACCGGCG	GCCGTCCTCG	GCGCTGTCCG	GTCGCGCGGG
13741	TGCTGCCGCG	GCGGTGCCTG	AGGCCGCCAG	CCCCTTCCCG	AGCCTGCCCT	TTTCGCTGAA
10EV1	CAGCGTGCGC	AGCAGCGAGC	TGGGTCGGCT	GACGCGGCCG	CGCCTGCTGG	GCGAGGAGGA
13EC1	GTACCTGAAC	GACTCCTTGT	TGAGGCCCGA	GCGCGAGAAG	AACTTCCCCA	ATAACGGGAT
T320T	AGAGAGCC'TG	GTGGACAAGA	TGAGCCGCTG	GAAGACGTAC	GCGCACGAGC	ACAGGGACGA
T207T	GCCCCGAGCT	AGCAGCAGCG	CAGGCACCCG	TAGACGCCAG	CGACACGACA	GGCAGCGGGG
12244 T208T	TCTGGTGTGG	GACGATGAGG	ATTCCGCCGA	CGACAGCAGC	GTGTTGGACT	TGGGTGGGAG
13001	TGGTGGTGGT	AACCCGTTCG	CTCACTTGCG	CCCCCGTATC	GGGCGCCTGA	TGTAAGAATC
T380T	TGAAAAAATA	AAAAACGGTA	CTCACCAAGG	CCATGGCGAC	CAGCGTGCGT	TCTTCTCTGT
T380T	TGTTTGTAGT	AGTATGATGA	GGCGCGTGTA	CCCGGAGGGT	CCTCCTCCCT	CGTACGAGAG

13921	רכיייבא יייבר <i>א</i> כי	CAGGCGGTGG	CCCCCCCC	CCACCCCCC	amaan aaaaa	CEET COMOGO
		CTGGCGCCTA				
141041	CTTGTACGAT	ACCACCCGGT	TGTACCTGGT	GGACAACAAG	TCGGCGGACA	TCGCCTCGCT
14101	GAACTACCAG	AACGACCACA	GCAACTTCCT	GACCACCGTG	GTGCAGAACA	ACGATTTCAC
14161	CCCCACGGAG	GCCAGCACCC	AGACCATCAA	CTTTGACGAG	CGCTCGCGGT	GGGGCGGCCA
14221	GCTGAAAACC	ATCATGCACA	CCAACATGCC	CAACGTGAAC	GAGTTCATGT	ACAGCAACAA
14281	GTTCAAGGCG	CGGGTGATGG	TCTCGCGCAA	GACCCCCAAT	GGGGTCGCGG	TGGATGAGAA
14341	TTATGATGGT	AGTCAGGACG	AGCTGACTTA	CGAGTGGGTG	GAGTTTGAGC	TGCCCGAGGG
14401	CAACTTCTCG	GTGACCATGA	CCATCGATCT	GATGAACAAC	GCCATCATCG	ACAACTACTT
14461	GGCGGTGGGG	CGTCAGAACG	GGGTGCTGGA	GAGCGACATC	GGCGTGAAGT	TCGACACGCG
		CTGGGCTGGG				
14581	CGAGGCCTTC	CACCCGACA	TCGTCCTGCT	GCCCGGCTGC	GGCGTGGACT	TCACCGAGAG
14641	CCGCCTCAGC	AACCTGCTGG	GCATCCGCAA	GCGGCAGCCC	TTCCAGGAGG	CCTTCCCACAT
14701	CCTGTACGAG	GACCTGGAGG	CCCCCAACAT	CCCCCCCCTC	TICCAGGAGG	AACCCMAMCA
14761	GAAAAGCAAG	GAGGAGGCCG	CCCCACCCC	CACCCCACCC	CUCCCCCACCC	CCMCMACCCA
14821	CCTCCCCCCC	GATAATTTTG	CURCACCCCC	CCCACTCCCC	GIGGCCACCG	CCTCTACCGA
		ATCCAGCCGG				
74247	GGACAAGAAA	AACACCGCCT	ACCGCAGCTG	GTACCTGGCC	TACAACTACG	GCGACCCCGA
		CGCTCCTGGA				
		TCGCTGCCCG				
15121	AGTTAGCAAC	TACCCGGTGG	TGGGCGCCGA	GCTCCTGCCC	GTCTACTCCA	AGAGCTTCTT
		GCCGTCTACT				
15241	CAACCGCTTC	CCCGAGAACC	AGATCCTCGT	CCGCCCGCCC	GCGCCCACCA	TTACCACCGT
15301	CAGTGAAAAC	GTTCCTGCTC	TCACAGATCA	CGGGACCCTG	CCGCTGCGCA	GCAGTATCCG
15361	GGGAGTCCAG	CGCGTGACCG	TCACTGACGC	CAGACGCCGC	ACCTGCCCCT	ACGTCTACAA
15421	GGCCCTGGGC	GTAGTCGCGC	CGCGCGTCCT	CTCGAGCCGC	ACCTTCTAAA	AAATGTCCAT
15481	TCTCATCTCG	CCCAGTAATA	AÇACCGGTTG.	GGGCCTGCGC	GCGCCCAGCA	AGATGTACGG
15541	AGGCGCTCGC	CAACGCTCCA	CGCAACACCC	CGTGCGCGTG	CGCGGGCACT	TCCGCGCTCC
15601	CTGGGGCGCC	CTCAAGGGCC	GCGTGCGCTC	GCGCACCACC	GTCGACGACG	TGATCGACCA
15661	GGTGGTGGCC	GACGCGCGCA	ACTACACGCC	CGCCGCCGCG	CCCGCCTCCA	CCGTGGACGC
15721	-CGTCATCGAC	AGCGTGGTGG	CCGATGCGCG	CCCCTACCC	CCCCCCAACA	GCCGCGCGCG
15781	GCGCATCGCC	CGGCGCACC	GGAGCACCCC .	-CGCCATGCCC	CCCCCCCAC	CCTTCCTCCC
15841	CAGGGCCAGG	CGCACGGGAC	GCAGGGCCAT	CCTCACCCC	GCCACACGC	CCTIGCTGCG
15901	CAGCAGCAGC	GCCGGCAGGA	CCCCCACACC	CCCCCCCACC	CCCCCCCCCC	CCCCCAMCCC
15961	CACCATCTCC	CGCCCGCGGC	CCCCCAACCT	COCGGCCACG	CCCCA CCCCA	CGGCCATCGC
16021	CCCCCTCCCC	GTGCGCACCC	GCGGCWWCGI	GIACIGGIG	TOCOMO A COTTO	CCACCGGTGT
16001	TCTCTCCCCAC	CGGCGAGGAG	GCCCCCTCG	CACTIGAAGA	TGCTGACTTC	GCGATGTTGA
16141	AMCCCCAG	CGC-CGAGGAG	GATGTCCAAG	CGCAAATACA	AGGAAGAGA'I'	GCTCCAGGTC
10141	AICGCGCCIG	AGATCTACGG	CCCCGCGCTG	AAGGAGGAAA	GAAAGCCCCG	CAAACTGAAG
		AGGACAAAAA				
		CCCGGCGGCG				
16321	CCCGGCACCA	CGGTGGTCTT	CACGCCCGGC	GAGCGTTCCG	GCTCCGCCTC	CAAGCGCTCC
16381	TACGACGAGG	TGTACGGGGA	CGAGGACATC	CTCGAGCAGG	CGGTCGAGCG	TCTGGGCGAG
16441	TTTGCTTACG	GCAAGCGCAG	CCGCCCCGCG	CCCTTGAAAG	AGGAGGCGGT	GTCCATCCCG
16501	CTGGACCACG	GCAACCCCAC	GCCGAGCCTG	AAGCCGGTGA	CCCTGCAGCA	GGTGCTGCCG
16561	AGCGCGGCGC	CGCGCCGGGG	CTTCAAGCGC	GAGGGCGGCG	AGGATCTGTA	CCCGACCATG
16621	CAGCTGATGG	TGCCCAAGCG	CCAGAAGCTG	GAGGACGTGC	TGGAGCACAT	GAAGGTGGAC
16681	CCCGAGGTGC	AGCCCGAGGT	CAAGGTGCGG	CCCATCAAGC	AGGTGGCCCC	GGGCCTGGGC
16741	GTGCAGACCG	TGGACATCAA	GATCCCCACG	GAGCCCATGG	AAACGCAGAC	CGAGCCCGTG
16801	AAGCCCAGCA	CCAGCACCAT	GGAGGTGCAG	ACGGATCCCT	GGATGCCGGC	CCCCCCTTCC
16861	ACCACTCGCC	GAAGACGCAA	GTACGGCGCG	GCCAGCCTGC	TCATCCCCAA	CTACCCCCTC
16921	CATCCTTCCA	TCATCCCCAC	GCCGGGCTAC	CGCGGCACGC	CCTTCCCCAA	CTWCGCGCTG
16981	AGCAGCCGCC	GCAAGACCAC	CACCCCCCC	CGCGGCACGC	CCACCCCCC	CAGCIACACC
17041	GCGACTTCCC	CCGCCGCCCT	CCTCCCGCCGC	CACCATCATC	CCCCCCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
17101	CACCACTICCA	CCGCCGCCCT	CCCCA CCA PCC	GIGIACUGUA	TOTOGOGOGO	GCCTCTGACC
171 <i>C</i> 1	CTACCACACACA	CGCGCTACCA	CCCGAGCATC	GCCATTTAAC	TCTGCCGTCG	CCTCCTACTT
17771	CCCCCCCCC	CCCTCACATG	CCGCCTCCGC	GTCCCCCATTA	CGGGCTACCG	AGGAAGAAAG
17201	CCGCGCCGTA	GAAGGCTGAC	GGGGAACGGG	CTGCGTCGCC	ATCACCACCG	GCGGCGCCC
17241	GCCATCAGCA	AGC GGTTGGG	GGGAGGCTTC	CTGCCCGCGC	TGATCCCCAT	CATCGCCGCG
T/24T	GCGATCGGGG	CGATCCCCGG	CATAGCTTCC	GTGGCGGTGC	AGGCCTCTCA	GCGCCACTGA

17/01	CACACACCO	CCAAAA MCCCC	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 00003 00005 0	~~~~~~~	
17401	GACACAGCII	GGAAAATTTG	TAATAAAAA	ATGGACTGAC	GCTCCTGGTC	CTGTGATGTG
17461	TGTTTTAGA	TGGAAGACAT	CAATTTTTCG	TCCCTGGCAC	CGCGACACGG	CACGCGGCCG
17521	TTTATGGGCA	CCTGGAGCGA	CATCGGCAAC	AGCCAACTGA	ACGGGGGCGC	CTTCAATTGG
17581	AGCAGTCTCT	GGAGCGGGCT	TAAGAATTTC	GGGTCCACGC	TCAAAACCTA	TGGCAACAAG
		GCAGCACAAGG				
		TCGATGGCCT				
		AACAGATCAA				
		TGGAGGAGGA				
		AGGAGACGCT				
17941	GTGAAACTGG	GTCTGCCCAC	CACGCGGCCC	GTGGCGCCTC	TGGCCACCGG	GGTGCTGAAA
18001	CCCAGCAGCA	GCAGCCAGCC	CGCGACCCTG	GACTTGCCTC	CGCCTGCTTC	CCGCCCCTCC
18061	ACAGTGGCTA	AGCCCCTGCC	GCCGGTGGCC	GTCGCGTCGC	GCGCCCCCC	AGGCCGCCCC
18121	CAGGCGAACT	GGCAGAGCAC	TCTGAACAGC	ATCGTGGGTC	TGGGAGTGCA	CACTCTCAAC
18181	CGCCGCCGCT	GCTATTAAAA	CACACTCTAC	CCCTT A CTT	CCDWCWCWCW	CUCUNUNUUCU
		ACCAGAAGGA				
		CCAGTGGGCG				
		GGTGCAGTTC				
		CACGGTGGCG				
18481	CGCTGCGCTT	CGTGCCCGTG	GACCGCGAGG	ACAACACCTA	CTCGTACAAA	GTGCGCTACA
18541	CGCTGGCCGT	GGGCGACAAC	CGCGTGCTGG	ACATGGCCAG	CACCTACTTT	GACATCCGCG
		TCGGGGGCCC				
		AGCGCCCAAC				
		TACATATGGA				
		AACTGACAGC				
		GGGTGATGCT				
		TAAGCCTGAC				
		AGGAGGCCAG				
19021	ACATTGACAT	GGCATTCTTC	GATAATCGAA	GTGCAGCTGC	CGCCGGCCTA	GCCCCAGAAA
		TACTGAGAAT				
		TGACAGTAGC				
		TGGCTTCAGA				
19261	<u>አጥአጥርርርጥርጥ</u>	ACTGGCTGGA	CACCCCTTA	TCGGTCTGWT	TCTCCTACAAC	MMCCACIGGCA
		ACTGTCCTAC				
		GAATCAGGCG				
		GGATGAACTT				
		GGGAATTAAG				
19561	CTGTTAATGA	TGCTAATGAA	TTGGGCAAGG	GCAATCCTTT	CGCCATGGAG	ATCAACATCC
19621	AGGCCAACCT	GTGGCGGAAC	TTCCTCTACG	CGAACGTGGC	GCTGTACCTG	CCCGACTCCT
19681	ACAAGTACAC	GCCGGCCAAC	ATCACGCTGC	CCACCAACAC	CAACACCTAC	GATTACATGA
		GGTGGCGCCC				
		CATGGACAAC				
10061	ACCCCTTCCATT	CCTCCTCC	A A CCCCCCC	A COMOCOCOM	CCGCAACGCG	GGCCTGCGAT
10001	ACCGCICCAI	GCTCCTGGGC	AACGGGCGCT	ACGIGCCCTT	CCACATCCAG	GTGCCCCAAA
19921	AGTTTTTCGC	CATCAAGAGC	CTCCTGCTCC	TGCCCGGGTC	CTACACCTAC	GAGTGGAACT
19981	TCCGCAAGGA	CGTCAACATG	ATCCTGCAGA	GCTCCCTCGG	CAACGACCTG	CGCACGGACG
		CGCCTTCACC				
20101	ACACCGCCTC	CACGCTCGAG	GCCATGCTGC	GCAACGACAC	CAACGACCAG	TCCTTCAACG
20161	ACTACCTCTC	GGCGGCCAAC	ATGCTCTACC	CCATCCCGGC	CAACGCCACC	AACGTGCCCA
20221	TCTCCATCCC	CTCGCGCAAC	TGGGCCGCCT	TCCGCGGCTG	GTCCTTCACG	CGCCTCAAGA
20281	CCCGCGAGAC	GCCCTCGCTC	GGCTCCGGGT	TCCDCCCC	CTTCCTCTAC	TCCCCCTCCA
		CGACGCCACC				
		CGTCAGCTGG				
20461	TCAAGCGCAC	CGTCGACGGA	GAGGGGTACA	ACGTGGCCCA	GTGCAACATG	ACCAAGGACT
20521	GGTTCCTGGT	CCAGATGC TG	GCCCACTACA	ACATCGGCTA	CCAGGGCTTC	TACGTGCCCG
20581	AGGGCTACAA	GGACCGCATG	TACTCCTTCT	TCCGCAACTT	CCAGCCCATG	AGCCGCCAGG
20641	TCGTGGACGA	GGTCAACTAC	AAGGACTACC	AGGCCGTCAC	CCTGGCCTAC	CAGCACAACA
20701	ACTCGGGCTT	CGTCGGCTAC	CTCGCGCCCA	CCATGCGCCA	GGGCCAGCCC	TACCCCGCCA
20761	ACTACCCCTA	CCCGCTCATC	GGCAAGAGCG	CCGTCGCCAG	CGTCACCCAG	AAAAAGTTCC
20821	TCTGCGACCG	GGTCATGT GG	CGCATCCCCT	TCTCCACCAA	CTTCATCTCC	ATRCCCCCCC
				- 0 - OULOCAA		20000000000

20881	TCACCGACCT	CGGCCAGAAC	ATGCTCTACG	CCAACTCCCC	ССАСССССТА	CACATCAATT
		CCCCATGGAT				
		GCACCAGCCC				
		CAACGCCACC				
		AGCAGGAGCT				
		TCGACAAGCG				
		CGGCCGGCCG				
		ACACCTGCTA				
		AGTTCGAGTA				
		CCCTGGAAAA				
		GCTGCATGTT				
		CCATGAACTT				
		CCCTGCGCCG				
		GCTCCCACCG				
		AATCCGGTGT				
		CCTTCTCTGA				
		eccceceiec				
21901	ACTCGGGGAT	CAGCAGCTTC	GGCACGGGGA	GGTCGGGGAA	CGAGTCGCTC	CACAGCTTGC
21961	GCGTGAGTTG	CAGGGCGCCC	AGCAGGTCGG	GCGCGGAGAT	CTTGAAATCG	CAGTTGGGAC
22021	CCGCGTTCTG	CGCGCGAGAG	TTACGGTACA	CGGGGTTGCA	GCACTGGAAC	ACCATCAGGG
		CACGCTCGCC				
		CATCCCGAAG				
		GTGGTTGCAA				
		CGGGTACATG				
		CTCGGTGAAG				
		GTGCACGCAG				
		CTGGGTGATC				
		CACATCCATC				
		CTTGCCCTCG				
		CTTGTGGGCG				
		GGTCAGGGTC				
		CAGGTGGCAG				
22001	MCCCCMMCMC	CAGGTCGCTC	1CCACGCGG1	ACCGGTCCAT	CAGCAGCGTC	ATCACTTCCA
		CCAGGCCGAA				
		CGCCGAAGTC				
		GGTGATGCGC				
		TTCGTCCTCG				
		CTTTTTGGGC				
		CACGACTATT				
		CTGGGGCAGA				
		TCCGCGTTCG				
		CATTGTGTTC				
		TGCCCCCGCC				
		GCCCAGCCCC				
		GATTGACCTG				
		AGCCCCGGAA				
23641	AGCAGAACCA	GGCTGGGCTC	GAGCATGGCG	ACTACCTGAG	CGGGGCAGAG	GACGTGCTCA
23701	TCAAGCATCT	GGCCCGCCAA	TGCATCATCG	TCAAGGACGC	GCTGCTCGAC	CGCGCCGAGG
23761	TGCCCCTCAG	CGTGGCGGAG	CTCAGCCGCG	CCTACGAGCG	CAACCTCTTC	TCGCCGCGCG
23821	TGCCCCCAA	GCGCCAGCCC	AACGGCACCT	GCGAGCCCAA	CCCGCGCCTC	AACTTCTACC
		GGTGCCCGAG				
		CTGCCGCGCC				
24001	GCGCCCGCCT	ACCTGATATC	GCCTCCTTGG	AAGAGGTTCC	CAAGATCTTC	GAGGGTCTGG
24061	GCAGCGACGA	GACTCGGGCC	GCGAACGCTC	TGCAAGGAAG	CGGAGAGGAG	CATGAGCACC
		GGTGGAGTTG				
		CCACTTCGCC				
		GGTGCTCATC				
		GGACGAGGGC				
		- 3		_ 5.10001100f1	20110010000	0001000100

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		AGGCAGAGGA				GGCAGAGGAG
		CACCCCCCAG		AGCGGCGCAA		
24421	TGGTGACCGT	GGAGCTGGAG				ACCCTGCGCA
		GAACCTGCAC	TACCTCTTCA	GACACGGGTT	CGTGCGCCAG	GCCTGCAAGA
24541	TCTCCAACGT	GGAGCTGACC	AACCTGGTCT	CCTACATGGG	CATCCTGCAC	GAGAACCGCC
24601	TGGGGCAGAA	CGTGCTGCAC	ACCACCCTGC	GCGGGGAGGC	CCGCCGCGAC	TACATCCGCG
24661	ACTGCGTCTA	CCTGTACCTC	TGCCACACCT	GGCAGACGGG	CATGGGCGTG	TGGCAGCAGT
24721	GCCTGGAGGA	GCAGAACCTG		GCAAGCTCCT		
24781	TGTGGACCGG	GTTCGACGAG		CCGCGGACCT		
24841	AGCGCCTGCG	GCTGACGCTG		TGCCCGACTT		
	AAAACTTTCG			CCGGGATCCT		
24961	TGCCCTCGGA	CTTCGTGCCG		GCGAGTGCCC		
	GCTACCTGCT			CCTACCACTC		
		CCTGCTCGAG		GCTGCAACCT		
		CCCCCAGCTG		CCCAGATCAT		
	GCCCGGCGA			TCACCCCGGG		
		CGTGCCCGAG		CCTTCGAGAT		
		CAAGGCCGAG		GCGTCATCAC		
		CATCCAGAAA		AATTTCTGCT		
		CCAGACCGGA		ACCCCAGCTT		
	AGCAGCAAGA					
	GACAGCCTGC			CCGCCGCCGG		
	GCCGCCGCCA			GACGAGGTGG		
	TCCGCTCCGG			GAGGAGAAAG		
				GCCCACAGTA		
	TTCCCGAACC			AAGGAGCGGC		
	GGGCACAAAA			CAAGCCTGCG		
	CGGCGCTACC		CCGCGGGGTG			
	CGTCACCTCC		CTACTGTTTC			
	CAGCAGCAGA		CAGCAGCTAG			
	GATCGCGGCG		CGCAGACCCG			
	CTATGCCATC		GTCGGGGGCA			
	TCTGCGCTCG		GTTGTCTGTA			
	TCTCGAGGAC		TCTTCAACAA			
	CGCGCCCGCC		AAAAGGCGGG			
	ACCATCATCA		GATTCCCACG			
	GGCCTGGCCG		CCAGGACTAC			
	CCCGCGATGA		GAATGACATC			
	CAGTCAGCGA		GCCCCGCCAT			
26641	CTGGTGTACC	AGGAAATTCC	CCAGCCCACG			
26701	GAAGTCCAGC	TGACTAACTC	AGGTGTCCAG			
	CGCCCCGCTC		GCGGCTGGTG			
	GAGGTGGTGA		GGGTCTGCGA			
	GGGAGATCTT		TCGTCAGGCC	GTCCTGACTT	TGGAGAGTTC	GTCCTCGCAG
26941	CCCCGCTCGG	GTGGCATCGG	CACTCTCCAG	TTCGTGGAGG	AGTTCACTCC	CTCGGTCTAC
27001	TTCAACCCCT	TCTCCGGCTC	CCCCGGCCAC	TACCCGGACG	AGTTCATCCC	GAACTTCGAC
27061	GCCATCAGCG	AGTCGGTGGA	CGGCTACGAT	TGAATGTCCC	ATGGTGGCGC	GGCTGACCTA
27121	GCTCGGCTTC	GACACCTGGA	CCACTGCCGC	CGCTTCCGCT	GCTTCGCTCG	GGATCTCGCC
27181	GAGTTTGCCT	ACTTTGAGCT	GCCCGAGGAG			
	ATCGTCGTCG		CGACTCCCAC			
	CTGGCCGAGC		ACAGACCCTT			
	GGCCTGCATG		TTGTCTGCTG			
		GGACTTCCGT	GTGTTCCTGC			
			AGTGTAAGCC			
			TCAACCACTG	CGACAACGAC	GGAGTCCTCC	TGAGCGGCCC
27601	TGCCAACCTT	ACTTTTTCCA	CCCGCAGAAG			
			CGGGACCCTG	CCATCACACC		CCT TCCTCCC
27721	CACAGCGTCG	CTCCCCCCTA	CTAACAACCA	AACTACCCAC	CAACGCCAGA	CUCCCCATA LAC
27781	TTCCTCTGGG	TCTAATACCA	CTACCGGAGG	TCACCTACCCAC	CCTCCACCACC	CCMCMCCCVW
			Development	LONGOICCGA	GGICGACCAA	CCICIGGGAI.

2784 <b>1</b>	TTACTACGGC	CCCTGGGAGG	TGGTAGGGTT	AATAGCGCTA	CCCCTACTTC	ССССТССССТ
27901	TTTGGCTCTC	TGCTACCTAT	ACCTCCCTTG	CTGTTCGTAC	TTACTCCTCC	TOTOTOTO
27961	GTTTAAGAAA	TGGGGAAGAT	CACCCTAGTG	ACCTCCCCTC	TIAGIGGIGC	CCTCCTCCTG
28021			CGCGGCTGTA			
28081			GCTGAGTTTT			
	A TO CALLOCOG	CAMACACAAMA	CGAGAACGTG	CAGCCCGATG	GCAATCGGTG	
28201						GACTCGGAAC
			GCAGCCCGGG			CTCTGTCCCC
			CACCGTGAAT			
28321			GCAGTACGAT			
28381			CGTGTGCACG			
28441			TCGCCCCAGA			
			TTTCAGACCA			
28561			CATGGAATGA			
2862 <u>1</u>			CCAGAAAAAG			
28681	ATGAATCAGA	TGTATCTACT	GAACTCTGTG	GAAACAATAA	CAAAAAAAAT	GAGAGCATTA
28741	CTCTCATCAA	GTTTCAATGT	GGATCTGACT	TAACCCTAAT	TAACATCACT	AGAGACTATG
28801	TAGGTATGTA	TTATGGAACT	ACAGCAGGCA	TTTCGGACAT	GGAATTTTAT	CAAGTTTCTG
28861			AGAATGACCA			
28921			TTTCTTGCCA			
28981			GAGGAAATTC			
29041			ATCGCCTTGT			
29101			CTGGAACACT			
29161	CCATGAAGAT	CCTACCCCTT	TTAGTTTTT	CTATCATTAC	CTCTTTTTTTT	TITITIAGAA
29221			GTTGTCGGAT			
29281			TGGTTCGGAA			
29341			AATTCTAAAA			
29401			AAATTCTAAAA			
29461						
	CCGACAATAT	GATTTTTTAC	AA AGTGGAAG	1'GGTTGATCC	CACTACTCCA	CCGCCCACCA
29521	CCACAACTAC	TCATACCACA	CACACAGAAC	AAACACCAGA	GGCAGCAGAA	GCAGAGTTGG
29581			TCCTTTGCTG			
29641			ATTGTCGGTG			
29701			TGCTATAGAA			
29761			$\verb"TTTCCAGAGC"$			
29821			${\tt TTAGTGCTGG}$			
29881			GCATCAGTGG			
29941			${\tt GCGATTGGAA}$			
30001			CC CAAGATCA			
30061	TAGAAATAAT	GGGTATGAAT	CC CATAACAT	GTTTATCTAT	GACGTCACTG	TCATCAGAAA
30121	TGAGACTGCC	ACCACCACAC	AGATGCCCAC	TACACACAGT	TCTACCACTA	CTACCATGCA
30181	AACCACACAG	ACAACCACTA	CATCAACTCA	GCATATGACC	ACCACTACAG	CAGCAAAGCC
30241	AAGTAGTGCA	GCGCCTCAGC	CC CAGGCTTT	GGCTTTGAAA	GCTGCACAAC	CTAGTACAAC
30301	TACTAGGACC	AATGAGCAGA	CT.ACTGAATT	TTTGTCCACT	GTCGAGAGCC	ACACCACAGC
30361	TACCTCCAGT	GCCTTCTCTA	GC.ACCGCCAA	TCTCTCCTCG	CTTTCCTCTA	CACCAATCAG
30421	TCCCGCTACT	ACTCCCACCC	CAGCTCTTCT	CCCCACTCCC	CTGAAGCAAA	CTGAGGACAG
30481	CGGCATGCAA	TGGCAGATCA	CC CTGCTCAT	TGTGATCGGG	TTGGTCATCC	<b>ТСССССТСТТ</b>
30541	GCTCTACTAC	ATCTTCTGCC	GC CGCATTCC	CAACGCGCAC	CGCAAACCGG	CCTACAACCC
30601			AG CCGCTTCA			
30661	CTCTTTTACA	GTATGGTGAT	TGAACTATGA	TTCCTACACA	ATTCTTCATC	VCWVMMCMWV
30721			GC CACCCTCG			
30781			GTGCTCTTTG			
30841			TTCTTCCAGT			
30901						
			TA CCGCGACC			
30961			TACTTCTCGC			
31021			AGTCCCCCGA			
31081			AC CGCCAAAA			
31141			TGGCCTGCAC			
31201			CAGAGGCGCT			
31261	ACAGCAACCT	CAGGCACACG	CACTACCACC	ACCACAGCCT	AGGCCACAAT	ACATGCCCAT

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31321	ATTAGACTAT	GAGGCCGAGC	CACAGCGACC	CATGCTCCCC	' ርርጥልጥጥልርጥጥ	י אכיחייר א אייכייי
31381	AACCGGCGGA	GATGACTGAC	CCACTGGCCA	ACAACAACCT	. GCIMILAGII	CTTCAAICI
31441	TGGACGGCCG	CGCCTCGGAG	CAGCGACTCG	CCCVVCanacc	CAACGACCII	CICCIGGACA
31501	CACCCCTCAA	GGAGCTGGA	GACGGCATAG	CCCTTCIICG	DAJJUJITAJ 1	CAGCAGGAGA
31561	CCCTCCTCA	ACACCCCAAC	ATCTCCTACG	A CCECA CCCA	GIGCAAGAAA	GGCATCTTCT
31601	ACCIGGIGAA	CONCONCOC	ATCTCCTACG	AGGTCACCCC	GACCGACCAT	CGCCTCTCCT
31601	MCGAGCICCI	GUAGUAGUGU	CAGAAGTTCA	CCTGCCTGGT	CGGAGTCAAC	CCCATCGTCA
21241	TCACCCAGCA	GTCGGGCGAT	ACCAAGGGGT	GCATCCACTG	CTCCTGCGAC	TCCCCCGACT
2T/4T	GCGTCCACAC	TCTGATCAAG	ACCCTCTGCG	GCCTCCGCGA	CCTCCTCCCC	ATGAACTAAT
2180T	CACCCCCTTA	TCCAGTGAAA	TAZATATCAT	ATTGATGATG	ATTTAAATAA	AAAATAATCA
31861	TTTGATTTGA	AATAAAGATA	CAATCATATT	GATGATTTGA	GTTTTAAAAA	ATAAAGAATC
31921	ACTTACTTGA	AATCTGATAC	CAGGTCTCTG	TCCATGTTTT	CTGCCAACAC	CACCTCACTC
31981	CCCTCTTCCC	AGCTCTGGTA	CTGCAGACCC	CGGCGGGCTG	CAAACTTCCT	CCACACGCTG
32041	AĄGGGGATGT	CAAATTCCTC	CTGTCCCTCA	ATCTTCATTT	TATCTTCTAT	CAGATGTCCA
32101	AAAAGCGCGT	CCGGGTGGAT	GATGACTTCG	ACCCCGTCTA	CCCCTACGAT	GCAGACAACG
32161	CACCGACCGT	GCCCTTCATC	AACCCCCCT	TCGTCTCTTC	AGATGGATTC	CAAGAGAAGC
32221	CCCTGGGGGT	GCTGTCCCTG	CGACTGGCTG	ACCCCGTCAC	CACCAAGAAC	GGGGAAATCA
32281	CCCTCAAGCT	GGGAGAGGGG	GTGGACCTCG	ACTCCTCGGG	AAAACTCATC	TCCAACACGG
32341	CCACCAAGGC	CGCCGCCCT	CTCAGTTTTT	CCAACAACAC	САТТТСССТТ	AACATGGATA
32401	CCCCTCTTTA	TACCAAAGAT	GGAAAATTAT	CCTTACAAGT	TTCTCCACCG	TTTDDTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
32461	TAAAATCAAC	CATTCTGAAC	ACATTAGCTG	TAGCTTATGG	2 TC 2 CC TTTT 2	CCACTCACTC
32521	GTGGCACTGC	TCTTGCAGTA	CAGTTGGCCT	CTCCACTCAC	TICAGGIIIA	A A A C C A A A M A
32581	ΤΤΑΑΑΑΤΤΑΑ	CCTAGCCAGT	GGTCCATTAA	CACTTCATCC	A A CTCCA COO	AAAGGAAAIA
32641	GCAAAAGAGG	CCTCACTCTC	ACTACCTCAG	CACAMCCAAM	MAGICGACII	AGTATCAACT
32701	CTABACCTAT	A A C A TOTO TO A	GGTAATGGCA	UAGAI GCAAI	TGAAAGCAAC	ATAAGCTGGC
32761	THAMBGIAI	MACMACACAC	ACTGATGTCA	TAGCTGCAAA	CATTGGCAGA	GGATTGGAAT
32001	CENCECCCE	TAGIACAGAG	ACT GATGTCA	CAGATGCATA	CCCAATTCAA	G'1"TAAAT"TGG
3202I	GIACIGGCCI.	TACCTTTGAC	AGTACAGGCG	CCATTGTTGC	TTGGAACAAA	GAGGATGATA
3200I	AACTTACATT	ATGGACCACA	<u>GCC</u> GACCCCT	CGCCAAATTG	CAAAATATAC	TCTGAAAAAG
3294I	ATGCCAAACT	CACACTTTTGC	TTGACAAAGT	GTGGAAGTCA	AATTCTGGGT	ACTGTGACTG
3300T	TATTGGCAGT	GAATAATGGA	AGTCTCAACC	CAATCACAAA	CACAGTAAGC	ACTGCACTCG
3306T	TCTCCCTCAA	GTTTGATGCA	${\tt AGTGGAGTTT}$	TGCTAAGCAG	CTCCACATTA	GACAAAGAAT
33121	ATTGGAACTT	CAGAAAGGGA	GATGTTACAC	CTGCTGAGCC	CTATACTAAT	GCTATAGGTT
33181	TTATGCCTAA	CATAAAGGCC	TATCCTAAAA	ACACATCTGC	AGCTTCAAAA	AGCCATATTG
33241	TCAGTCAAGT	TTATCTCAAT	GGGGATGAGG	CCAAACCACT	GATGCTGATT	ATTACTTTTA
33301	ATGAAACTGA	GGATGCAACT	TGCACCTACA	GTATCACTTT	TCAATGGAAA	TGGGATAGTA
33361	CTAAGTACAC	AGGTGAAACA	CTTGCTACCA	GCTCCTTCAC	CTTCTCCTAC	ATCGCCCAAG
33421	AATGAACACT	GTATCCCACC	CTGCATGCCA	ACCCTTCCCA	CCCCACTCTG	TCTATGGAAA
33481	AAACTCTGAA	GCACAAAATA	AAATAAAGTT	CAAGTGTTTT	ATTGATTCAA	CAGTTTTACA
33541	GGATTCGAGC	AGTTATTTTT	CCTCCACCCT	CCCAGGACAT	GGAATACACC	ACCCTCTCCC
33601	CCCGCACAGC	CTTGAACATC	TGAATGCCAT	TGGTGATGGA	CATGCTTTTG	GTCTCCACGT
33661	TCCACACAGT	TTCAGAGCGA	GCCAGTCTCG	GGTCGGTCAG	GGAGATGAAA	CCCTCCGGGC
33721	ACTCCCGCAT	CTGCACCTCA	CAGCTCAACA	GCTGAGGATT	GTCCTCGGTG	GTCGGGATCA
33781	CGGTTATCTG	GAAGAAGCAG	AAGAGCGGCG	GTGGGAATCA	TAGTCCGCGA	ACCCCATCCC
33841	CCGGTGGTGT	CGCATCAGGC	CCCGCAGCAG	TCGCTGCCGC	CGCCGCTCCG	TCAACCTCCT
33901	GCTCAGGGGG	TCCGGGTCCA	GGGACTCCCT	CACCATCATC	CCCACGCCC	TCAAGCIGCI
33961	тсетстесте	CGGCGGGCGC	AGCAGCGCAT	CCCCATCTC	CTCACGGCCC	TCAGCATCAG
34021	GCAACACAGG	ACCACCACCT	TGTTCAACAG	TCC2 T2 CTTC	CICAGGICGC	1 GCAGTACGT
34081	CATCCCCCCA	ACCACCAGGI	CCACGTGGCC	COCCATAGITC	AACACGCTCC	AGCCGAAACT
3/1//1	CCCCTCCCTC	CACAACACCC	TOTAL COLLEGE COLL	GICGIACCAG	ATCCTCAGGT	AAATCAAGTG
34201	CACCACCCCC	TAGAACACACA	TGC CCACGTA	CATGATCTCC	TTGGGCATGT	GGCGGTTCAC
24201	CACCICCOGG	ACCACATCA	CCCTCTGGTT	GAACATGCAG	CCCCGGATGA	TCCTGCGGAA
24201	CCACAGGGCC	AGCACCGCCC	CGC CCGCCAT	GCAGCGAAGA	GACCCCGGGT	CCCGGCAATG
3434I	GCAATGGAGG	ACCCACCGCT	CGTACCCGTG	GATCATCTGG	GAGCTGAACA	AGTCTATGTT
3438I	GGCACAGCAC	AGGCATATGC	TCATGCATCT	CTTCAGCACT	CTCAGCTCCT	CGGGGGTCAA
3444L	AACCATATCC	CAGGGCACGG	GGA ACTCTTG	CAGGACAGCG	AACCCCGCAG	AACAGGGCAA
34501	TCCTCGCACA	TAACTTACAT	TGTGCATGGA	CAGGGTATCG	CAATCAGGCA	GCACCGGGTG
34561	ATCCTCCACC	AGAGAAGCGC	GGGTCTCGGT	CTCCTCACAG	CGTGGTAAGG	GGGCCGGCCG
34621	ATACGGGTGA	TGGCGGGACG	CGGCTGATCG	TGTTCGCGAC	CGTGTCATGA	TGCAGTTGCT
34681	TTCGGACATT	TTCGTACTTG	CTGTAGCAGA	ACCTGGTCCG	GGCGCTGCAC	ACCGATCGCC
34741	GGCGGCGTC	CCGGCGCTTG	GAACGCTCGG	TGTTGAAATT	GTAAAACAGC	CACTCTCTCA

34801	GACCGTGCAG	CAGATCTAGG	GCCTCAGGAG	TGATGAAGAT	CCCATCATGC	CTGATAGCTC
34861	TGATCACATC	GACCACCGTG	GAATGGGCCA	GACCCAGCCA	GATGATGCAA	TTTTGTTGGG
34921	TTTCGGTGAC	GGCGGGGGAG	GGAZAGAACAG	GAAGAACCAT	GATTAACTTT	TAATCCAAAC
34981	GGTCTCGGAG	CACTTCAAAA	TGAZAGGTCGC	GGAGATGGCA	CCTCTCGCCC	CCGCTGTGTT
35041	GGTGGAAAAT	AACAGCCAGG	TCAZAAGGTGA	TACGGTTCTC	GAGATGTTCC	ACGGTGGCTT
35101	CCAGCAAAGC	CTCCACGCGC	ACATCCAGAA	ACAAGACAAT	AGCGAAAGCG	GGAGGGTTCT
35161	CTAATTCCTC	AATCATCATG	TTACACTCCT	GCACCATCCC	CAGATAATTT	TCATTTTTCC
35221	AGCCTTGAAT	GATTCGAACT	AGTTCCTGAG	GTAAATCCAA	GCCAGCCATG	ATAAAGAGCT
35281	CGCGCAGAGC	GCCCTCCACC	GGCATTCTTA	AGCACACCCT	CATAATTCCA	AGATATTCTG
35341	CTCCTGGTTC	ACCTGCAGCA	GATTGACAAG	CGGAATATCA	AAATCTCTGC	CGCGATCCCT
35401	AAGCTCCTCC	CTCAGCAATA	ACTGTAAGTA	CTCTTTCATA	TCCTCTCCGA	AATTTTTAGC
35461	CATAGGACCA	CCAGGAATAA	GATTAGGGCA	AGCCACAGTA	CAGATAAACC	GAAGTCCTCC
35521	CCAGTGAGCA	TTGCCAAATG	CAAGACTGCT	ATAAGCATGC	TGGCTAGACC	CGGTGATATC
35581	TTCCAGATAA	CTGGACAGAA	AATCACCCAG	GCAATTTTTA	AGAAAATCAA	CAAAAGAAAA
35641	ATCCTCCAGG	TGCACGTTTA	GAGCCTCGGG	AACAACGATG	AAGTAAATGC	AAGCGGTGCG
35701	TTCCAGCATG	GTTAGTTAGC	TGATCTGTAA	AAAACAAAAA	ATAAAACATT	AAACCATGCT
35761	AGCCTGGCGA	ACAGGTGGGT	AAATCGTTCT	CTCCAGCACC	AGGCAGGCCA	CGGGGTCTCC
35821	GGCGCGACCC	TCGTAAAAAT	TGTCGCTATG	ATTGAAAACC	ATCACAGAGA	GACGTTCCCG
35881	GTGGCCGGCG	TGAATGATTC	GACAAGATGA	ATACACCCCC	GGAACATTGG	CGTCCGCGAG
35941	TGAAAAAAAG	CGCCCGAGGA	AGCAATAAGG	CACTACAATG	CTCAGTCTCA	AGTCCAGCAA
36001	AGCGATGCCA	TGCGGATGAA	GCACAAAATC	CTCAGGTGCG	TACAAAATGT	AATTACTCCC
36061	CTCCTGCACA	GGCAGCGAAG	CCCCCGATCC	CTCCAGATAC	ACATACAAAG	CCTCAGCGTC
36121	CATAGCTTAC	CGAGCAGCAG	CACACAACAG	GCGCAAGAGT	CAGAGAAAGG	CTGAGCTCTA
36181	ACCTGTCCAC	CCGCTCTCTG	CTCAATATAT	AGCCCAGATC	TACACTGACG	TAAAGGCCAA
36241	AGTCTAAAAA	TACCCGCCAA	ATAATCACAC	ACGCCCAGCA	CACGCCCAGA	AACCGGTGAC
36301	ACACTCAAAA	AAATACGCGC	ACTTCCTCAA	ACGCCCAAAC	TGCCGTCATT	TCCGGGTTCC
36361	CACGCTACGT	CATCGGAATT	CGACTTTCAA	ATTCCGTCGA	CCGTTAAAAA	CGTCACCCGC
36421	CCCGCCCCTA	ACGGTCGCCC	GTCTCTCGGC	CAATCACCTT	CCTCCCTCCC	CAAATTCAAA
36481	CAGCTCATTT	GCATATTAAC	GCGCACCAAA	AGTTTGAGGT	ATATTATTGA	TGATG
(SEQ I	D NO: 4)			A Commence of the Commence of		

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			gcgtggggct			
T308T	cgccgcgctc	gacatgaccg	cgcgcaacat	ggagcccagc	atgtacgccc	gcaaccgccc
13141	gttcatcaat	aagctgatgg	actacttgca	tcgggcggcc	gccatgaact	cggactactt
13201	taccaacgcc	atcttgaacc	cgcactggct	cccgccgccc	gggttctaca	cgggcgagta
13261	cgacatgccc	gaccccaacg	acgggttcct	gtgggacgac	gtggacagca	gcgtgttctc
13321	gccgcgcccc	accaccacca	ccgtgtggaa	gaaagaggc	ggggaccggc	ggccgtcctc
13381	ggcgctgtcc	ggtcgcgcgg	gtgctgccgc	ggcggtgccc	gaggccgcca	gccccttccc
13441	gagcctgccc	ttttcgctga	acagcgtgcg	cagcagcgag	ctgggtcggc	tgacgcggcc
13501	gcgcctgctg	ggcgaggagg	agtacctgaa	cgactccttg	cttcggcccg	agcgcgagaa
13561	gaacttcccc	aataacggga	tagagagcct	ggtggacaag	atgagccgct	ggaagacgta
13621	cgcgcacgag	cacagggacg	agccccgagc	tagcagcagc	accggcgcca	cccgtagacg
13681	ccagcggcac	gacaggcagc	ggggtctggt	gtgggacgat	gaggattccg	ccgacgacag
13741	cagcgtgttg	gacttgggtg	ggagtggtgg	tggtaacccg	ttcgctcacc	tgcgcccccg
13801	tatcgggcgc	ctgatgtaag	aatctgaaaa	aataaaagac	ggtactcacc	aaggccatgg
13861	cgaccagcgt	gcgttcttct	ctgttgtttg	tagtagtatg	atgaggcgcg	tgtacccgga

12021		~~~+~~+~~~				•
13321	gggtcctcct	ceetegracy	agagegegae	geageaggeg	gradcaacaa	cgatgcagcc
13981	c ccgctggag	gcgccttacg	tgcccccgcg	gtacctggcg	cctacggagg	ggcggaacag
14041	cattcgttac	tcggagctgg	cacccttgta	cgataccacc	cggttgtacc	tggtggacaa
14101	c aagtcggcg	gacatcgcct	cgctgaacta	ccagaacgac	cacagcaact	tcctgaccac
14161	c gtggtgcag	aacaacgatt	tcacccccac	ggaggccagc	acccagacca	tcaactttga
14221	c gagcgctcg	caataaaaca	gccagctgaa	aaccatcato	cacaccaaca	tacccaacat
14281	gaacgagttc	atgtacagca	acaagttcaa	aacacaaata	ataatataa	acasassas
14341	caacggggtc	acactaacac	ataataataa	ggCgcgggcg	acggccccgc	gcaagacccc
1 4 4 0 1	taacggggcc	acagtaacag	tatacatasa	ggacgagety	acctacgagt	gggtggagtt
74407	t gagctgccc	gagggcaact	teteggtgae	Cattgaccate	gatetgatga	acaacgccat
T440T	catcgacaac	tacttggegg	rggggcggca	gaacggggtg	ctggagagcg	acatcggcgt
145ZI	gaagttcgac	acgcgcaact	tccggctggg	ctgggacccc	gtgaccgagc	tggtgatgcc
14581	gggggtgtac	accaacgagg	ccttccaccc	cgacatcgtc	ctgctgcccg	gctgcggcgt
14641	ggacttcacc	gagagccgcc	tcagcaacct	gctgggcatc	cgcaagcggc	agcccttcca
14701	ggagggcttc	cagatcctgt	acgaggacct	ggagggggc	aacatccccg	cgctgctgga
14761	cgtggacgcc	tacgagaaaa	gcaaggagga	tagcgccgcc	gcggcgaccg	cagccgtggc
14821	caccgcctct	accgaggtgc	ggggcgataa	ttttgctagc	accacaacac	taacaacaac
14881	cgaggcggct	gaaaccgaaa	gtaagatagt	gattccagccg	ataaaaaaaa	acagcaagga
14941	gaggagctac	aacqtqctcq	садасаадаа	aaacaccccc	taccocaoct	aatacctaac
15001	c tacaactac	aacasaccca	adaaddacat	acactectaa	acceptages	ggeactagge
15061	cgtcacctgc	aacataaaa	agaagggcgc	gtgctcctgg	acgetgetea	angagagat
15101	apacttage	ggcgcggagc	aagtetaety	gtegetgeee	gacatgatge	aagacccggt
15101	caccttccgc	teeaegegee	aagttagcaa	ctacccggtg	åräääcäccä	agctcctgcc
T2T8T	cgtctactcc	aagagcttct	tcaacgagca	ggccgtctac	tcgcagcagc	tgcgcgcctt
15241	cacctcgctc	acgcacgtct	tcaaccgctt	ccccgagaac	cagatcctcg	ttcgcccgcc
	cgcgcccacc					
15361	gccgctgcgc	agcagtatcc	ggggagtcca	gcgcgtgacc	gtcactgacg	ccagacgccg
15421	cacctgcccc	tacgtctaca	aggccctggg	cgtagtcgcg	ccgcgcgtcc	tctcgagccg
15481	caccttctaa	aaaatgtcca	ttctcatctc	gcccagtaat.	aacaccggtt	ggggcctgcg
15541	cgcgcccagc	aagatgtacg	gaggcgctcg	ccaacgctcc	acqcaacacc	ccatacacat
	gcgcggcac					
15661	cgtcgacgac	gtgatcgacc	aggtggtggc	·cas cacacac	aactacacgc	ccaccaccac
15721	gcccgtctcc	accotogaco	ccatcatcaa	cacreatrata	accascacac	accaatacac
15781	ccgcgccaag	accaacaac	aacacatcac	cccacacacac	cadadcacc	ccaccataca
15841	cacaacacaa	accttactac	agagaacaga	acacacaca	aggageaeee	tagtagaga
15001	cacaaaaaa	geeeegeege	gcagggccag	gcgcacggga	cgcagggcca	tyctcagggc
15061	ggccagacgc	geggeeteeg	geageageag	cgccggcagg	accegeagae	gegeggeeae
T 2 3 0 T	ggcggcggcg	geggeeateg	ceageatgte	ccarcccacaa	cgcggcaacg	tgtactgggt
16021	gcgcgacgcc	gccaccggtg	tgcgcgtgcc	cgtgcgcacc	cgccccctc	gcacttgaag
	atgctgactt					
16141	aaggaagaga	tgctccaggt	catcgcgcct	gagratctacg	gcccggcggc	ggtgaaggag
16201	gaaagaaagc	cccgcaaact	gaagcgggtc	aaa.aaggaca	aaaaggagga	ggaagatgtg
16261	gacggactgg	tggagtttgt	gcgcgagttc	gcccccggc	ggcgcgtgca	gtggcgcggg
16321	cggaaagtga	aaccggtgct	gcgacccggc	accacggtgg	tcttcacgcc	cggcgagcgt
16381	tccggctccg	cctccaagcg	ctcctacgac	gaggtgtacg	gggacgagga	catcctcgag
	caggcggccg					
16501	aæagaggagg	caatatccat	cccactagac	cactogggaacc	ccacacasa	cctasaacca
16561	gtgaccctgc	agcaggtgct	acctaataca	aca ccacaca	aaaagaagag	acacasaaac
16621	ggcgaggatc	tatacccac	catacaacta	atactacca	aggggcccaa	gcgcgagggc
16601	atactacaca	agataaagat	catgeagetg	atggtgttta	agegeeagaa	getggaggae
16741	gtgctggagc	acatgaaygt	ggaccccgag	g t g cageeeg	aggicaaggi	geggeeeate
10/41	aagcaggtgg	ccccgggcct	gggcgtgcag	accgtggaca	tcaagatccc	cacggagccc
T080T	atggaaacgc	agaccgagcc	cgtgaagccc	agcaccagca	ccatggaggt	gcagacggat
16861	ccctggatgc	cggcaccggc	ttccaccacc	cgccgaagac	gcaagtacgg	cgcggccagc
	ctgctgatgc					
16981	acgcgcttct	accgcggcta	caccagcagc	cgccgca	agaccaccac	ccgccgccgc
17041	cgtcgtcgca	cccgccgcag	cagcaccgcg	act tccgccg	ccgccctggt	gcggagagtg
17101	taccgcagcg	ggcgcgagcc	tctgaccctg	ccgrcgcgcgc	gctaccaccc	gagcatccc
17161	atttaactac	cgcctcctac	ttgcagatat	ggccctcaca	tgccgcctcc	gcgtccccat
17221	tacgggctac	cgaggaagaa	agccacacca	tagraaggetg	acadadaaca	gactacatca
17281	ccatcaccac	caacaacaac	gcgccat.cag	caa.gcggttg	aaaaaaaaat	tectacees
17341	gctgatgccc	atcatcacca	caacastcaa	accastacca	adcataactt	ccatacaaat
	5-09409000	accuracycog	-gg-gategg	a a cocco	ggcacagett	ccgrggcggr

FIG. 9E

17401	gcaggcctct	cagcgccact	gagacacagc	ttggaaaatt	tgtaataaaa	aatggactga
17461	cgctcctggt	cctgtgatgt	gtgtttttag	atggaagaca	tcaatttttc	gtccctggca
				acct ggagcg		
				tggagcgggc		
				agcagcacag		
				gtcgatggcc		
				aaac agatca		
				gtggaggagg		
				gaggragacgc		
				ggtctgccca		
				agcagcagcc		
				gctaagcccc		
				aact ggcaga		
				cgctgctatt		
				gccgaccaga		
				tgct gcccca		
				cgggtctggt		
				ggaa.cccac		
				tgcgcttcgt		
				tggc cgtggg		
				tgct ggatcg		
				ccaa gggagc		
				aaaa aaccta		
				ttcaacttgg		
				agcc tcaagt		
				gcagagctct		
				ccaa taaaga		
				acat tgacat		
				ttgt tttgta		
				cggg cacaga		
				ccaactacat-		
				acat gggcgt		
				gaaa.cactga		
				tcagtatgtg		
				acgg tgtgga		
				atac ttacca		
				ctgt taatga		
19621	gcaatccttt	cgccatggag	atcaacatcc	aggc caacct	gtggcggaac	ttcctctacg
19681	cgaacgtggc	gctgtacctg	cccgactcct	acaagtacac	gccggccaac	atcacgctgc
19741	cgaccaacac	caacacctac	gattacatga	acggccgcgt	ggtggcgccc	tcgctggtgg
19801	acgcctacat	caacatcggg	gcgcgctggt	cgct ggaccc	catggacaac	gtcaacccct
				accgctccat		
19921	acgtgccctt	ccacatccag	gtgccccaaa	agtt cttcgc	catcaagagc	ctcctgctcc
19981	tgcccgggtc	ctacacctac	gagtggaact	tccgcaagga	cgtcaacatg	atcctgcaga
20041	gctccctcgg	caacgacctg	cgcacggacg	gggcctccat	cgccttcacc	agcatcaacc
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20161	gcaacgacac	caacgaccag	tccttcaacg	actacctctc	ggcggccaac	atgctctacc
				tctccatccc		
				cccgcgagac		
				tcccctacct		
				tcgactcctc		
				tcaagcgcac		
				ggttcctggt		
				agggctacaa		
				tcgtggacga		
				actcgggctt		
				actacccta		
				tctgcgaccg		
		- 3			23	-30000000

20001	tataasaass	attastataa		+ ~ ~ ~ ~ ~ ~ ~ +		
				tcaccgacct		
				tcgaag tcga		
				tcgtccgagt		
21061	tcatcgaggc	cgtctacctg	cgcacgccct	tctcggccgg	caacgccacc	acctaagccc
21121	cgctcttgct	tcttgcaaga	tgacggcctg	tgcgggctcc	ggcgagcagg	agctcagggc
				cttcctgggc		
				cgccat cgtc		
				gaaccc gcgc		
				caagcagatc		
				ggaccgctgc		
				ctgcgggctc		
				ggacaagaac		
				ccaggt ggaa		
				ctccgcctac		
				gaatcaagac		
				gtttatgcca		
				tctcggcgtg		
				actcggggat		
				gcgtgagttg		
				ccgcgttctg		
22081	cggggttgca	gcactggaac	accatcaggg	ccgggtgctt	cacgctcgcc	agcaccgtcg
22141	cgtcggtgat	gccctccacg	tccagatcct	cggcgt tggc	catcccgaag	ggggtcatct
22201	tgcaggtctg	ccgccccatg	ctgggcacgc	agccgggctt	gtggttgcaa	tcgcagtgca
				agctcatgcc		
				ccttgccgcc		
				agccggcgtc		
				cccagcggtt		
				tctcgctcgc		
				ggcatcgcag		
				actcccagtt		
						ttgttgctgg
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				tgcccttctc		
				tcttagtcgc		
				tgccgtcctt		
				cctcggcctg		
				tcttgcgggg		
				agttctcgct		
				aggcatgcct		
				tggcagagcc		
23341	gctcctggcg	gcgctgctct	gactgacttc	ctccgcggcc	ggccattgtg	ttctcctagg
23401	gagcaacaag	catggagact	cagccatcgt	cgccaacatc	gccatctgcc	cccgccgccg
23461	ccgacgagaa	ccagcagcag	aatgaaagct	taaccgcccc	gccgcccagc	cccacctccg
23521	acgccgccgc	ggccccagac	atgcaagaga	tggaggaatc	catcgagatt	gacctgggct
23581	acgtgacgcc	cgcggagcac	gaggaggagc	tggcagcgcg	cttttcagcc	ccggaagaga
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				tgctcatcaa		
				ccgaggtgcc		
				cgcgcgtgcc		
				tctacccggt		
				aaaggatccc		
				gtcccggcgc		
				gtctgggcag		
				agcaccacag		
				gcacggtcga		
				gcgccgtcat		
24301	gcgcctcgcc	cctctcggat	gaggacatgc	aggaccccga	gagctcggac	gagggcaagc

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24361 ccgtggtcag cgacgagcag ctggcgcgct ggctgggagc gagtagcacc ccccagagct 24421 tggaagagcg gcgCaagctc atgatggccg tggtcctggt gaccgtggag ctggagtgtc 24481 tgcgccgctt cttcgccgac gcagagaccc tgcgcaaggt cgaggagaac ctgcactacc 24541 tcttcaggca cgggtttgtg cgccaggcct gcaagatctc caacgtggag ctgaccaacc 24601 tggtctccta catgggcatc ctgcacgaga accgcctggg gcagaacgtg ctgcacacca 24661 ccctgcgcgg ggaggcccgc cgcgactaca tccgcgactg cgtctacctg tacctctgcc 24721 acacetggca gacgggcatg ggcgtgtggc agcagtgcct ggaggagcag aacetgaaag 24781 agctctgcaa gctcctgcag aagaacctga aggccctgtg gaccgggttc gacgagcgca 24841 ccaccgcctc ggacctggcc gacctcatct tccccgagcg cctgcggctg acgctgcgca 24901 acggactgcc cgactttatg agtcaaagca tgttgcaaaa ctttcgctct ttcatcctcg 24961 aacgctccgg gatcctgccc gccacctgct ccgcgctgcc ctcggacttc gtgccgctga 25021 cetteegega gtg⊂eeceeg eegetetgga gecaetgeta cetgetgege etggeeaact 25081 acctggccta ccactcggac gtgatcgagg acgtcagcgg cgagggtctg ctcgagtgcc 25141 actgccgctg caacctctgc acgccgcacc gctccctggc ctgcaacccc cagctgctga 25201 gcgagaccca gatcatcggc accttcgagt tgcaaggccc cggcgagggc aaggggggtc 25261 tgaaactcac cccggggctg tggacctcgg cctacttgcg caagttcgtg cccgaggact 25321 accatccctt cgagatcagg ttctacgagg accaatccca gccgcccaag gccgaactgt 25381 cggcctgcgt catcaccag ggggccatcc tggcccaatt gcaagccatc cagaaatccc 25441 gccaagaatt tctgctgaaa aagggccacg gggtctacct ggacccccag accggagagg 25501 agctcaaccc cagcttcccc caggatgccc cgaggaagca gcaagaagct gaaagtggag 25561 ctgccgccgc cggaggattt ggaggaagac tgggagagca gtcaggcaga ggaggaggag 25621 atggaagact gggacagcac tcaggcagag gaggacagcc tgcaagacag tctggaagac 25681 gaggtggagg aggaggcaga ggaagaagca gccgccgcca gaccgtcgtc ctcggcggag 25741 aaagcaagca gcacggatac catctccgct ccgggtcggg gtcgcggcga ccgggcccac 25801 agtaggtggg acgagaccgg gcgcttcccg aaccccacca cccagaccgg taagaaggag 25861 cggcagggat acaagtcctg gcgggggcac aaaaacgcca tcgtctcctg cttgcaagcc 25921 tgcgggggca acatetectt. caccegecgc .tacetgetet tecacegegg ggtgaactte 25981 ccccgcaaca tcttgcatta ctaccgtcac ctccacagcc cctactactg tttccaaqaa 26041 gaggcagaaa cccagcagca gcagaaaacc agcggcagca gcagctagaa aatccacagc 26101 ggcggcaggt ggactgagga tcgcagcgaa cgagccggcg cagacccggg agctgaggaa 26161 ccggatcttt cccaccctct atgccatctt ccagcagagt cgggggcagg agcaggaact 26221 gaaagtcaag aaccgttctc tgcgctcgct cacccgcagt tgtctgtatc acaagagcga 26281 agaccaactt cagcgcactc tcgaggacgc cgaggctctc ttcaacaagt actgcgcgct 26341 cactettaaa gagtageeg egeegeeca cacaeggaaa aaggegggaa ttaegteace 26401 acctgcgccc ttcgcccgac catcatcatg agcaaagaga ttcccacgcc ttacatgtgg 26461 agctaccagc cccagatggg cctggccgcc ggcgccgccc aggactactc cacccgcatg 26521 aactggctca gcgccgggcc cgcgatgatc tcacgggtga atgacatccg cgcccgccga 26581 aaccagatac teetagaaca gteagegate accgecacge eccgecatea cettaateeg 26641 cgtaattggc ccgccct ggtgtaccag gaaattcccc agcccacgac cgtactactt 26701 ccgcgagacg cccaggccga agtccagctg actaactcag gtgtccagct ggccggcggc 26761 gccgccctgt gtcgrtcaccg ccccgctcag ggtataaagc ggctggtgat ccgaggcaga 26821 ggcacacagc tcaa.cgacga ggtggtgagc tcttcgctgg gtctgcgacc tgacggagtc 26881 ttccaactcg ccggratcggg gagatcttcc ttcacgcctc gtcaggccgt cctgactttg 26941 gagagttcgt cctcgcagcc ccgctcgggt ggcatcggca ctctccagtt cgtggaggag 27001 ttcactccct cggtctactt caaccccttc tccggctccc ccggccacta cccggacgag 27061 ttcatcccga acttcgacgc catcagcgag tcggtggacg gctacgattg aatgtcccat 27121 ggtggcgcag ctgacctagc tcggcttcga cacctggacc actgtcgcct ctcctacgag 27181 ctcctgcagc agcgccagaa gttcacctgc ctggtcggag tcaaccccat cgtcatcacc 27241 cagcagtcgg gcgataccaa ggggtgcatc cactgctcct gcgactcccc cgactgcgtc 27301 cacactetga teaa.gaceet etgeggeete egegaeetee teeceatgaa etaateacee 27361 ccttatccag tgaa.ataaag atcatattga tgatttgagt ttaataaaaa taaagaatca 27421 cttacttgaa atct gatacc aggtctctgt ccatgttttc tgccaacacc acttcactcc 27481 cctcttccca gctctggtac tgcaggcccc ggcgggctgc aaacttcctc cacaccctga 27541 aggggatgtc aaat tcctcc tgtccctcaa tcttcatttt atcttctatc agatgtccaa 27601 aaagcgcgtc cggg tggatg atgacttcga ccccgtctac ccctacgatg cagacaacgc 27661 accgaccgtg ccct tcatca acccccctt cgtctcttca gatggattcc aagagaagcc 27721 cctgggggtg ctgtccctgc gtctggccga tcccgtcacc accaagaacg gggaaatcac 27781 cctcaagctg ggagatgggg tggacctcga ctcctcggga aaactcatct ccaacacggc

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27841 caccaaggcc gccgccctc tcagtttttc caacaacacc atttccctta acatggatac 27901 ccctttttac aacaacaatg gaaagttagg catgaaagtc actgctccac tgaagatact 27961 agacacagac ttgctaaaaa cacttgttgt agcttatgga caaggtttag gaacaaacac 28021 cactggtgcc cttgttgccc aactagcatc cccacttgct tttgatagca atagcaaaat 28081 tgcccttaat ttaggcaatg gaccattgaa agtggatgca aatagactga acatcaattg 28141 caatagagga ctctatgtta ctaccacaaa agatgcactg gaagccaata taagttgggc 28201 taatgctatg acatttatag gaaatgccat gggtgtcaat attgatacac aaaaaggctt 28261 gcaatttggc accactagta ccgtcgcaga tgttaaaaac gcttacccca tacaaatcaa 28321 acttggagct ggtctcacat ttgacagcac aggtgcaatt gttgcatgga acaaagatga 28381 tgacaagctt acactatgga ccacagccga cccctctcca aattgtcaca tatattctga 28441 aaaggatget aagettacae titgettgae aaagtgtgge agteagatte tgggeaetgt 28501 ttccctcata gctgttgata ctggcagttt aaatcccata acaggaacag taaccactgc 28561 tettgtetea ettaaatteg atgeaaatgg agttttgeaa ageageteaa caetagaete 28621 agactattgg aatttcagac agggagatgt tacacctgct gaagcctata ctaatgctat 28681 aggtttcatg cccaatctaa aagcataccc taaaaacaca agtggagctg caaaaagtca 28741 cattgttggg aaagtgtacc tacatgggga tacaggcaaa ccactggacc tcattattac 28801 tttcaatgaa acaagtgatg aatcttgcac ttactgtatt aactttcaat ggcagtgggg 28861 ggctgatcaa tataaaaatg aaacacttgc cgtcagttca ttcacctttt cctatattgc 28921 taaagaataa accccactct gtaccccatc tctgtctatg gaaaaaactc tgaaacacaa 28981 aataaaataa agttcaagtg ttttattgat tcaacagttt tacaggattc gagcagttat 29041 ttttcctcca ccctcccagg acatggaata caccacctc tcccccgca cagccttgaa 29101 catctgaatg ccattggtga tggacatgct tttggtctcc acgttccaca cagtttcaga 29161 gcgagccagt ctcgggtcgg tcagggagat gaaaccctcc gggcactccc gcatctgcac 29221 ctcacagctc aacagctgag gattgtcctc ggtggtcggg atcacggtta tctggaagaa 29281 gcagaagagc ggcggtggga atcatagtcc gcgaacggga tcggccggtg gtgtcgcatc 29341 aggccccgca gcagtcgctg tcgccgccgc tccgtcaagc tgctgctcag ggggtccggg 29401 tccagggact ccctcagcat gatgcccacg gccctcagca tcagtcgtct ggtgcggcgg 29461 gcgcagcagc gcatgcggat ctcgctcagg tcgctgcagt acgtgcaaca caggaccacc 29521 aggttgttca acagtccata gttcaacacg ctccagccga aactcatcgc gggaaggatg 29581 ctacccacgt ggccgtcgta ccagatcctc aggtaaatca agtggcgccc cctccagaac -29641 acgctgecca tgtacatgat etecttggge atgtggeggt tcaecacete eeggtaceac-29701 atcaccetet ggttgaacat geageceegg atgateetge ggaaceaeag ggeeageaee 29761 gccccgcccg ccatgcagcg aagagacccc gggtcccgac aatggcaatg gaggacccac 29821 cgctcgtacc cgtggatcat ctgggagctg aacaagtcta tgttggcaca gcacaggcat 29881 atgeteatge atetetteag cacteteage teeteggggg teaaaaceat ateceaggge 29941 acggggaact cttgcaggac agcgaacccc gcagaacagg gcaatcctcg cacataactt 30001 acattgtgca tggacagggt atcgcaatca ggcagcaccg ggtgatcctc caccagagaa 30061 gcgcgggtct cggtctcctc acagcgtggt aagggggccg gccgatacgg gtgatggcgg 30121 gacgcggctg atcgtgttcg cgaccgtgtt atgatgcagt tgctttcgga cattttcgta 30181 cttgctgtag cagaacctgg tccgggcgct gcacaccgat cgccggcggc ggtcccggcg 30241 cttggaacge teggtgttga agttgtaaaa cagecactet ctcagacegt geageagate 30301 tagggcctca ggagtgatga agatcccatc atgcctgatg gctctaatca catcgaccac 30361 cgtggaatgg gccagaccca gccagatgat gcaattttgt tgggtttcgg tgacggcggg 30421 ggagggaaga acaggaagaa ccatgattaa cttttaatcc amacggtctc ggagcacttc 30481 aaaatgaaga tegeggagat ggeacetete geeeeegetg tgttggtgga aaataacage 30541 caggtcaaag gtgatacggt tctcgagatg ttccacggtg gcttccagca aagcctccac 30601 gcgcacatcc agaaacaaga caatagcgaa agcgggaggg ttctctaatt cctcaatcat 30661 catgttacac tcctgcacca tccccagata attttcattt ttccagcctt gaatgattcg 30721 aactagttcc tgaggtaaat ccaagccagc catgataaag agctcgcgca gagcgccctc 30781 caccggcatt cttaagcaca ccctcataat tccaagatat tctgctcctg gttcacctgc 30841 agcagattga caagcggaat atcaaaatct ctgccgcgat ccctaagctc ctccctcagc 30901 aataactgta agtactcttt catatcctct ccgaaatttt tagccatagg accaccagga 30961 ataagattag ggcaagccac agtacagata aaccgaagtc ctccccagtg agcattgcca 31021 aatgcaagac tgctataagc atgctggcta gacccggtga tætcttccag ataactggac 31081 agaaaatcgc ccaggcaatt tttaagaaaa tcaacaaaag amaaatcctc caggtgcacg 31141 tttagagcct cgggaacaac gatggagtaa atgcaagcgg tgcgttccag catggttagt 31201 tagctgatct gtagaaaaaa acaaaaatga acattaaacc atgctagcct ggcgaacagg 31261 tgggtaaatc gttctctcca gcaccaggca ggccacgggg tctccggcac gaccctcgta

31321	aaaattgtcg	ctatgattga	aaaccatcac	agagagacgt	tcccgg tggc	cggcgtgaat
31381	gattcgacaa	gatgaataca	cccccggaac	attggcgtcc	gcgagt gaaa	aaaagcgccc
					agcaaa gcga	
31501	atgaagcaca	aaattctcag	gtgcgtacaa	aatgtaatta	ctcccc tcct	gcacaggcag
31561	caaagccccc	gatccctcca	ggtacacata	caaagcctca	gcgtcc atag	cttaccgagc
31621	agcagcacac	aacaggcgca	agagtcagag	aaaggctgag	ctctaa cctg	tccacccgct
					gccaaa gtct	
31741	gccaaataat	cacacacgc c	cagcacacgc	ccagaaaccg	gtgaca cact	caaaaaaata
					gttccc acgc	
					cccgcc ccgc	
31921	cgccgctccc	gcagccaat c	accgccccgc	atccccaaat	tcaaat acct	catttgcata
					(SEQ ID NO	

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1	ATGAAGCGCA	CCAAAACGTC	TGACGAGAGC	TTCAACCCCG	TGTACCCCTA	TGACACGGAA
61	AGCGGCCCTC	CCTCCGTCCC	TTTCCTCACC	CCTCCCTTCG	TGTCTCCCGA	TGGATTCCAA
121	GAAAGTCCCC	CCGGGGTCCT	GTCTCTGAAC	CTGGCCGAGC	CCCTGGTCAC	TTCCCACGGC
181	ATGCTCGCCC	TGAAAATGGG	AAGTGGCCTC	TCCCTGGACG	ACGCTGGCAA	CCTCACCTCT
241	CAAGATATCA	CCACCGCTAG	CCCTCCCCTC	AAAAAAACCA	AGACCAACCT	CAGCCTAGAA
301	ACCTCATCCC	CCCTAACTGT	GAGCACCTCA	GGCGCCCTCA	CCGTAGCAGC	CGCCGCTCCC
361	CTGGCGGTGG	CCGGCACCTC	CCTCACCATG	CAATCAGAGG	CCCCCTGAC	AGTACAGGAT
421	GCAAAACTCA	CCCTGGCCAC	CAAAGGCCCC	CTGACCGTGT	CTGAAGGCAA	ACTGGCCTTG
481	CAAACATCGG	CCCCGCTGAC	GGCCGCTGAC	AGCAGCACCC	TCACAGTCAG	TGCCACACCA
541	CCCCTTAGCA	CAAGCAATGG	CAGCTTGGGT	ATTGACATGC	AAGCCCCCAT	TTACACCACC
601	AATGGAAAAC	TAGGACTTAA	CTTTGGCGCT	CCCCTGCATG	TGGTAGACAG	CCTAAATGCA
661	CTGACTGTAG	TTACTGGCCA	AGGTCTTACG	ATAAACGGAA	CAGCCCTACA	AACTAGAGTC
721	TCAGGTGCCC	TCAACTATGA	CACATCAGGA	AACCTAGAAT	TGAGAGCTGC	AGGGGGTATG
781	CGAGTTGATG	CAAATGGTCA	ACTTATCCTT	GATGTAGCTT	ACCCATTTGA	TGCACAAAAC
841	AATCTCAGCC	TTAGGCTTGG	ACAGGGACCC	CTGTTTGTTA	ACTCTGCCCA	CAACTTGGAT
901	GTTAACTACA	ACAGAGGCCT	CTACCTGTTC	ACATCTGGAA	ATACCAAAAA	GCTAGAAGTT
961	AATATCAAAA	CAGCCAAGGG	TCTCATTTAT	GATGACACTG	CTATAGCAAT	CAATGCGGGT
1021	GATGGGCTAC	AGTTTGACTC	AGGCTCAGAT	ACAAATCCAT	TAAAAACTAA	ACTTGGATTA
1081	GGACTGGATT	ATGACTCCAG	CAGAGCCATA	ATTGCTAAAC	TGGGAACTGG	CCTAAGCTTT
1141	GACAACACAG	GTGCCATCAC	AGTAGGCAAC	AAAAATGATG	ACAAGCTCAC	CTTGTGGACC
1201	ACACCAGACC	CATCTCCTAA	CTGTAGAATC	TATTCAGAGA	AAGATGCTAA	ATTCACACTT
1261	GTTTTGACTA	AATGCGGCAG	TCAGGTGTTG	GCCAGĆGTTT	CTGTTTTATC	TGTAAAAGGT
1321	AGCCTTGCGC	CCATCAGTGG	CACAGTAACT	AGTGCTCAGA	TTGTCCTCAG	ATTTGATGAA
1381	AATGGAGTTC	TACTAAGCAA	TTCTTCCCTT	GACCCTCAAT	ACTGGAACTA	CAGAAAAGGT
1441	GACCTTACAG	AGGGCACTGC	ATATACCAAC	GCAGTGGGAT	TTATGCCCAA	CCTCACAGCA
1501	TACCCAAAAA	CACAGAGCCA	AACTGCTAAA	AGCAACATTG	TAAGTCAGGT	TTACTTGAAT
1561	GGGGACAAAT	CCAAACCCAT	GACCCTCACC	ATTACCCTCA	ATGGAACTAA	TGAAACAGGA
1621	GATGCCACAG	TAAGCACTTA	${\tt CTCCATGTCA}$	TTCTCATGGA	ACTGGAATGG	AAGTAATTAC
1681	ATTAATGAAA	CGTTCCAAAC	CAACTCCTTC	ACCTTCTCCT	ACATCGCCCA	AGAATAA
. (SEQ	ID NO: 6)					

1	ATGTCCAAAA	AGCGCGTCCG	GGTGGATGAT	GACTTCGACC	CCGTCTACCC	CTACGATGCA
61	GACAACGCAC	CGACCGTGCC	CTTCATCAAC	CCCCCTTCG	TCTCTTCAGA	TGGATTCCAA
121	GAGAAGCCCC	TGGGGGTGTT	GTCCCTGCGA	CTGGCCGACC	CCGTCACCAC	CAAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAGGGGGTG	GACCTCGATT	CCTCGGGAAA	ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	CGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCCCTTAAC
301	ATGGATCACC	CCTTTTACAC	TAAAGATGGA	AAATTATCCT	TACAAGTTTC	TCCACCATTA
361	AATATACTGA	GAACAAGCAT	TCTAAACACA	CTAGCTTTAG	GTTTTGGATC	AGGTTTAGGA
421	CTCCGTGGCT	CTGCCTTGGC	AGTACAGTTA	GTCTCTCCAC	TTACATTTGA	TACTGATGGA
481	AACATAAAGC	TTACCTTAGA	CAGAGGTTTG	CATGTTACAA	CAGGAGATGC	AATTGAAAGC
541	AACATAAGCT	GGGCTAAAGG	TTTAAAATTT	GAAGATGGAG	CCATAGCAAC	CAACATTGGA
601	AATGGGTTAG	AGTTTGGAAG	CAGTAGTACA	GAAACAGGTG	TTGATGATGC	TTACCCAATC
661	CAAGTTAAAC	TTGGATCTGG	CCTTAGCTTT	GACAGTACAG	GAGCCATAAT	GGCTGGTAAC
721	AAAGAAGACG	ATAAACTCAC	TTTGTGGACA	ACACCTGATC	CATCACCAAA	CTGTCAAATA
781	CTCGCAGAAA	ATGATGCAAA	ACTAACACTT	TGCTTGACTA	AATGTGGTAG	TCAAATACTG
841	GCCACTGTGT	CAGTCTTAGT	TGTAGGAAGT	GGAAACCTAA	ACCCCATTAC	TGGCACCGTA
901	AGCAGTGCTC	AGGTGTTTCT	ACGTTTTGAT	GCAAACGGTG	TTCTTTTAAC	AGAACATTCT
961	ACACTAAAAA	AATACTGGGG	GTATAGGCAG	GGAGATAGCA	TAGATGGCAC	TCCATATACC
1021	AATGCTGTAG	GATTCATGCC	CAATTTAAAA	GCTTATCCAA	AGTCACAAAG	TTCTACTACT
1081	AAAAATAATA	TAGTAGGGCA	AGTATACATG	AATGGAGATG	TTTCAAAACC	TATGCTTCTC
1141	ACTATAACCC	TCAATGGTAC	TGATGACAGC	AACAGTACAT	ATTCAATGTC	ATTTTCATAC
1201	ACCTGGACTA	ATGGAAGCTA	TGTTGGAGCA	ACATTTGGGG	CTAACTCTTA	TACCTTCTCA
1261			SEO ID NO:	7)	CIIIICICIIA	TITOTICION
		11101111021	(DTZ TD MO:	' '		

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1	ATGTCCAAAA	AGCGCGTCCG	GGTG GATGAT	GACTTCGACC	CCGTCTACCC	C TACGATGCA
61	GACAACGCAC	CGACCGTGCC	CTTC_ATCAAC	CCCCCTTCG	TCTCTTCAGA	TGGATTCCAA
121	GAGAAGCCCC	TGGGGGTGCT	GTCC CTGCGT	CTGGCCGATC	CCGTCACCAC	C.AAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAT GGGGTG	GACCTCGACG	ACTCGGGAAA	ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	CGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCCCTTAAC
301	ATGGATACCC	CTCTTTACAA	CAAC ZAATGGA	AAGCTAGGTA	TGAAGGTAAC	CGCACCATTA
361	AAGATATTAG	ACACAGATCT	ACTA_ZAAAACA	CTTGTTGTTG	CTTATGGGCA	GGGATTAGGA
421	ACAAACACCA	ATGGTGCTCT	TGTTGCCCAA	CTAGCATACC	CACTTGTTTT	T.AATACCGCT
481	AGCAAAATTG	CCCTTAATTT	AGGC.ZAATGGA	CCATTAAAAG	TGGATGCAAA	TAGACTGAAC
541	ATTAATTGCA	AAAGAGGTAT	CTATGTCACT	ACCACAAAAG	ATGCACTGGA	G.ATTAATATC
601	AGTTGGGCAA	ATGCTATGAC	ATTTZATAGGA	AATGCCATTG	GTGTCAATAT	TGACACAAAA
661	AAAGGCCTAC	AGTTCGGCAC	TTCAZAGCACT	GAAACAGATG	TTAAAAATGC	TTTTTCACTC
721	CAAGTAAAAC	TTGGAGCTGG	TCTTZACATTT	GACAGCACAG	GTGCCATTGT	TGCTTGGAAC
781	AAAGAAGATG	ACAAACTTAC	ACTGTGGACC	ACAGCCGATC	CATCTCCAAA	CTGTCACATA
841	TATTCTGCAA	AGGATGCTAA	GCTTZACACTC	TGCTTGACAA	AGTGTGGTAG	TCAAATCCTA
901	GGCACTGTCT	CCCTATTAGC	AGTCZAGTGGC	AGCTTGGCTC	CTATCACAGG	GGCTGTTAGA
961	ACTGCACTTG	TATCACTCAA	ATTCZATGCT	AATGGAGCCC	TTTTGGACAA	ATCAACTCTG
1021	AACAAAGAAT	ACTGGAACTA	CAGACAAGGA	GATCTAATTC	CAGGTACACC	ATATACACAT
1081	GCTGTGGGTT	TCATGCCTAA	CAAAZAAAGCC	TACCCTAAAA	ACACAACTGC	AGCTTCCAAG
1141	AGCCACATTG	TGGGTGATGT	GTATTTAGAT	GGAGATGCAG	ATAAACCTTT	ATCTCTTATC
1201	ATCACTTTCA	ATGAAACTGA	TGATGAAACC	TGTGATTACT	GCATCAACTT	TCAATGGAAA
1261	TGGGGAGCTG	ATCAATATAA	GGATZAAGACA	CTCGCAACCA	GTTCATTCAC	CTTCTCATAC
1321	ATCGCCCAAG A	AATAA (SEO	ID NO: 8)			

						-
1	ATGTCCAAAA	AGCGCGTCCG	GGTGGATGAT	GACTTCGACC	CCGTCTACCC	CTACGATGCA
61	GACAACGCAC	CGACCGTGCC	CTTCATCAAC	CCCCCCTTCG	TCTCTTCAGA	TGGATTCCAA
121	GAGAAGCCCC	TGGGGGTGCT	GTCCCTGCGA	CTGGCCGACC	CCGTCACCAC	CZAAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAGGGGGTG	GACCTCGACT	CCTCGGGAAA	ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	CGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCCCTTAAC
301	ATGGATACCC	CTTTTTACAA	CAATAATGGA	AAGTTAGGCA	TGAAAGTCAC	TGCTCCACTG
361	AAGATACTCG	ACACAGACTT	GCTAAAACA	CTTGTTGTAG	CTTATGGACA	AGGTTTAGGA
421	ACAAACACCA	CTGGTGCCCT	TGTTGCCCAA	CTAGCAGCCC	CACTTGCTTT	TGATAGCAAT
481	AGCAAAATTG	CCCTTAATTT	AGGCAATGGA	CCATTGAAAG	TGGATGCAAA	TAGACTGAAC
541	ATCAATTGCA	ATAGAGGACT	CTATGTTACT	ACCACAAAAG	ATGCACTGGA	AACCAACATA
601	AGTTGGGCTA	ATGCTATGAC	ATTTA TAGGA	AATGCCATGG	GTGTCAATAT	TGATACACAA
661	AAAGGCTTGC	AATTTGGCAC	CACTAGTACC	GTCGCAGATG	TTAAAAACGC	TTACCCCATA
721	CAAGTCAAAC	TGGGAGCTGG	TCTCACATTT	GACAGCACAG	GTGCAATTGT	CGCTTGGAAC
781	AAAGAAGATG	ACAAACTTAC	ACTGTGGACC	ACAGCCGATC	CATCTCCAAA	CTGTCACATA
841	TATTCTGACA	AGGATGCTAA	GCTTA_CACTC	TGCTTGACAA	AGTGTGGCAG	TCAGATACTG
901	GGCACTGTTT	CTCTCATAGC	TGTTGATACT	GGTAGCTTAA	ATCCAATAAC	AGGACAAGTA
961	ACCACTGCTC	TTGTTTCACT	TAAATTCGAT	GCCAATGGAG	TTTTGCAAAC	CAGTTCAACA
1021	TTGGACAAAG	AATATTGGAA	TTTTA GAAAA	GGAGATGTGA	CACCTGCTGA	GCCATATACT
1081	AATGCTATAG	GTTTCATGCC	CAATC TAAAG	GCATACCCTA	AAAACACAAG	TGGAGCTGCA
1141	AAAAGTCACA	TTGTTGGGAA	AGTGTACCTA	CATGGGGATA	CAGACAAACC	ACTGGACCTG
1201	ATTATTACTT	TCAATGAAAC	AAGTG ATGAA	TCTTGCACTT	ACTGTATTAA	CTTTCAATGG
1261	AAATGGGATA	GTACTAAGTA	CACAG GTGAA	ACACTTGCTA	CAAGCTCCTT	CACCTTCTCC
1321	TACATTGCCC	AAGAATGA (	SEO ID NO:	9)		

FIG. 13

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1	ATGTCCAAAA	AGCGCGTCCG	GGTGGATGAT	GACTTCGACC	CCGTCTACCC	CTACGATGCA
61	GACAACGCAC	CGACCGTGCC	CTTCATCAAC	CCCCCTTCG	TCTCTTCAGA	TGGATTCCAA
121	GAGAAGCCCC	TGGGGGTGTT	GTCCCTGCGA	CTGGCCGACC	CCGTCACCAC	CAAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAGG*GGGTG	GACCTCGACT	CCTCGGGAAA	ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	TGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCCCTTAAC
301	ATGGATCACC	CCTTTTACAC	TAAAG ATGGA	AAATTAGCCT	TACAAGTTTC	TCCACCATTA
361	AATATACTGA	GAACAAGCAT	TCTAA_ACACA	CTAGCTTTAG	GTTTTGGATC	AGGTTTAGGA
421	CTCCGTGGCT	CTGCCTTGGC	AGTAC AGTTA	GTCTCTCCAC	TTACATTTGA	TACTGATGGA
481	AACATAAAGC	TTACCTTAGA	CAGAG GTTTG	CATGTTACAA	CAGGAGATGC	ZATTGAAAGC
541	AACATAAGCT	GGGCTAAAGG	TTTAA_AATTT	GAAGATGGAG	CCATAGCAAC	CAACATTGGA
601	AATGGGTTAG	AGTTTGGAAG	CAGTA_GTACA	GAAACAGGTG	TCGATGATGC	TTACCCAATC
661	CAAGTTAAAC	TTGGATCTGG	${\tt CCTTA\_GCTTT}$	GACAGTACAG	GAGCCATAAT	GGCTGGTAAC
721	AAAGAAGACG	ATAAACTCAC	TTTGT GGACA	ACACCTGATC	CATCACCAAA	CTGTCAAATA
781	CTCGCAGAAA	ATGATGCAAA	ACTAA_CACTT	TGCTTGACTA	AATGTGGTAG	TCAAATACTG
841	GCCACTGTGT	CAGTCTTAGT	TGTAG GAAGT	GGAGACCTAA	ACCCCATTAC	TGGCACCGTA
901	AGCAGTGCTC	AGGTGTTTCT	ACGTT TTGAT	GCAAACGGTG	TTCTTTTAAC	AGAACATTCT
961	ACACTAAAAA	AATACTGGGG	GTATA_GGCAG	GGAGATAGCA	TAGATGGCAC	TCCATATGCC
1021	AATGCTGTAG	GATTCATGCC	CAATT TAAAA	GCTTATCCAA	AGTCACAAAG	TTCTACTACT
1081	AAAAATAATA	TAGTAGGGCA	AGTAT_ACATG	AATGGAGATG	TTTCAAAACC	TATGCTTCTC
1141	ACTATAACCC	TCAATGGTAC	TGATG_ACAGC	AACAGTACAT	ATTCAATGTC	ATTTTCATAC
1201	ACCTGGACTA	ATGGAAGCTA	TGTTG GAGCA	ACATTTGGAG	CTAACTCTTA	TACCTTCTCC
1261	TACATCGCCC	AAGAATGA (	SEQ ID NO:	10)		

1	ATGTCCAAAA	AGCGCGTCCG	GGTGG.ATGAT	GACTTCGACC	CCGTCTACCC	CTACGATGCA
61	GACAACGCAC	CGACCGTGCC	CTTCA TCAAC	CCCCCTTCG	,	TGGATTCCAA
. 121	GAGAAGCCCC	TGGGGGTGCT	GTCCC TGCGA	CTGGCCGACC	CCGTCACCAC	CAAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAGGGGGTG	GACCTCGACT		ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	CGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCCCTTAAC
301	ATGGATCACC	CCTTTTACAC	TAAAGZATGGA	AAATTATCCT		TCCACCATTA
361	AATATACTGA	GAACAAGCAT	TCTAAZACACA	CTAGCTTTAG	GTTTTGGATC	A.GGTTTAGGA
421	CTCCGTGGCT	CTGCCTTGGC	AGTAC AGTTA	GTCTCTCCAC	TTACATTTGA	TACTGATGGA
481	AACATAAAGC	TTACCTTAGA	CAGAGGTTTG	CATGTTACAA		A.ATTGAAAGC
541	AACATAAGCT	GGGCTAAAGG	TTTAAAATTT	GAAGATGGAG	CCATAGCAAC	CAACATTGGA
601	AATGGGTTAG	AGTTTGGAAG	CAGTAGTACA	GAAACAGGTG	TTGATGATGC	TTACCCAATC
661	CAAGTTAAAC	TTGGATCTGG	CCTTAGCTTT	GACAGTACAG	GAGCCATAAT	GGCTGGTAAC
721	AAAGAAGACG	ATAAACTCAC	TTTGTGGACA	ACACCTGATC	CATCGCCAAA	CTGTCAAATA
781	CTCGCAGAAA	ATGATGCAAA	ACTAACACTT	TGCTTGACTA	AATGTGGTAG	TCAAATACTG
841	GCCACTGTGT	CAGTCTTAGT	TGTAGGAAGT	GGAAACCTAA	ACCCCATTAC	TGGCACCGTA
901	AGCAGTGCTC	AGGTGTTTCT	ACGTTTTGAT	GCAAACGGTG	TTCTTTTAAC	AGAACATTCT
961	ACACTAAAAA	AATACTGGGG	GTATAGGCAG	GGAGATAGCA	TAGATGGCAC	TCCATATACC
1021	AATGCTGTAG	GATTCATGCC	CAATTTAAAA	GCTTATCCAA	AGTCACAAAG	TTCTACTACT
1081	AAAAATAATA	TAGTAGGGCA	AGTATACATG	AATGGAGATG	TTTCAAAACC	T.ATGCTTCTC
1141	ACTATAACCC	TCAATGGTAC	TGATGACAGC	AACAGTACAT	ATTCAATGTC	A TTTTCATAC
1201	ACCTGGACTA	ATGGAAGCTA	TGTTGGAGCA	ACATTTGGGG	CTAACTCTTA	TACCTTCTCA
1261	TACATCGCCC	AAGAATGA (	SEQ ID NO:	11)	•	

FIG. 15

#### 62/101

1	ATGAAGCGCA	CCAAAACGTC	TGACGAGAGC	TTCAACCCCG	TGTACCCCTA	TGACACGGAA
61	AACGGTCCTC	CCTCCGTCCC	TTTCCTCACC	CCTCCCTTCG	TGTCTCCCGA	TGGATTCCAA
121	GAGAGCCCCC	CCGGGGTCCT	GTCTCTGAAC	CTGGCCGAGC	CCCTGGTCAC	TTCCCACGGC
181	ATGCTCGCCC	TGAAAATGGG	AAGTGGCCTC	TCCCTGGACG	ACGCCGGCAA	CCTCACCTCT
241	CAAGATGTCA	CCACCACTAC	CCCTCCCCTG	AAAAAAACCA	AGACCAACCT	CAGCCTAGAA
301	ACCTCAGCCC	CCCTGACTGT	GAGCACCTCA	GGCGCCCTCA	CCCTAGCAGC	CGCCGTTCCC
361	CTGGCGGTGG	CCGGCACCTC	CCTCACCATG	CAATCAGAGG	CCCCCTGAC	AGTCCAAGAT
421	GCAAAACTCA	CCCTGGCCAC	CAAGGGCCCC	CTGACCGTGT	CTGAAGGCAA	ACTAGCCTTG
481	CAGACCTCGG	CCCCGCTGAC	GGCCGCTGAC	AGCAGCACCC	TCACAATCAG	CGCCACACCG
541	CCCCTTAGCA	CAAGCAATGG	CAGCTTGGGT	ATTGACATGC	AAGCCCCCAT	TTACACTACT
601	AACGGAAAAC	TGGGACTTAA	CTTTGGTGCT	CCCCTGCATG	TGGTAGACAG	CCTAAATGCA
661	CTGACTGTAG	TGACTGGCCA	AGGTCTTACG	ATAAACGGTA	CAGCCCTACA	AACTAGAGTC
721	TCAGGTGCCC	TCAACTATGA	CTCATCAGGA	AACCTAGAAT	TGAGAGCTGC	AGGGGGTATG
781	CGAGTTGATG	CAAATGGCAA	ACTTATCCTT	GACGTAGCTT	ACCCATTTGA	TGCTCAAAAC
841	AACCTCAGCC	TTAGACTTGG	ACAGGGACCC	CTGTTTGTTA	ACTCTGCCCA	CAACTTGGAT
901	GTTAACTACA	ACAGAGGCCT	CTACCTGTTC	ACATCTGGAA	ATACCAAAAA	GCTAGAAGTT
961	AATATCAAAA	CAGCCAAAGG	CCTCATTTAT	GATGACACTG	CTATAGCAAT	CAATCCAGGC
1021	GATGGGCTAG	AGTTTGGCTC	AGGCTCAGAT	ACAAATCCAT	TAAAAACTAA	ACTTGGATTG
1081	GGACTAGAGT	ATGACTCCAG	CAGAGCCATA	ATTGCTAAGC	TGGGAACCGG	CCTAAGCTTT
1141	GACAACACAG	GTGCCATCAC	AGTGGGCAAC	AAAAATGATG	ACAAGCTTAC	CTTGTGGACC
1201	ACACCAGACC	CCTCTCCCAA	CTGTAGAATT	TATTCAGAAA	AAGATGCTAA	ATTTACACTA
1261	GTTTTAACTA	AATGCGGCAG	TCAGGTGTTG	GCCAGCGTTT	CTGTTTTATC	TGTALAAAGGC
1321	AGCCTTGCGC	CCATCAGTGG	CACAGTAACT	AGCGCTCAGA	TTATTCTCAG	ATTTGATGAA
1381	AATGGAGTTC	TACTAAGCAA	TTCTTCTCTT	GACCCCCAAT	ACTGGAACTA	CAGAAAAGGT
1441	GACCTTACAG	AGGGCACTGC	ATATACCAAC	GCAGTGGGAT	TTATGCCCAA	CCTCACAGCA
1501	TACCCAAAAA	CACAGAGTCA	AACTGCTAAA	AGCAACATTG	TAAGCCAGGT	TTACTTGAAT
1561	GGGGACAAAT	CCAAACCCAT	GATCCTCACC	ATTACCCTCA	ATGGAACTAA	TGAAACAGGG
1621	GATGCTACAG	TTAGCACTTA	CTCCATGTCA	TTCTCATGGA	ATTGGAATGG	AAGTAATTAC
1681	ATTAATGAAA	CGTTCCAAAC	CAACTCTTTC	ACCTTCTCCT	ACATCGCCCA	AGAA TAA
(SEQ	ID NO: 12)					

1	ATGTCCAAAA	AGCGCGTCCG	GGTGGATGAT	GACTTCGACC	CCGTCTACCC	CTAC GATGCA
61	GACAACGCAC	CGACCGTGCC	CTTCATCAAC	CCCCCTTCG	TCTCTTCAGA	TGGATTCCAA
121	GAGAAGCCCC	TGGGGGTGCT	GTCCCTGCGA	CTGGCTGACC	CCGTCACCAC	CAAGAACGGG
181	GAAATCACCC	TCAAGCTGGG	AGAGGGGGTG	GACCTCGACT	CCTCGGGAAA	ACTCATCTCC
241	AACACGGCCA	CCAAGGCCGC	CGCCCCTCTC	AGTTTTTCCA	ACAACACCAT	TTCC CTTAAC
301	ATGGATACCC	CTTTTTACAC	CAAAGATGGA	AAATTAACCA	TGCAGGTCAC	TGCACCACTA
361	AAGTTAGCAA	ACACAGCCAT	ATTGAACACA	CTAGCTATGG	CATATGGAAA	TGGA.TTAGGT
421	CTAAGCAACA	ACGCTCTTAC	CGTTCAGTTA	CAATCTCCAC	TCACCTTTAA	CAACAGCAAG
481	GTTGCAATCA	ACCTGGGAAA	TGGACCACTA	AATGTAACAT	CAAACAGACT	TAGC ATTAAT
541	TGCAAGAGGG	GTGTCTATGT	CACCACCACA	GGAGATGCAA	TTGAAACCAA	CATA AGTTGG
601	TCAAATGCTA	TTAAATTTAT	AGGAAATGCC	ATGGGTGTCA	ACATTGATAC	AAACAAAGGC
661	TTGCAATTTG	GCACCACCAG	CACTGTCACA	GATGTGACCA	ATGCTTTCCC	CATACAAGTC
721	AAACTTGGGG	CTGGTCTTGC	ATTTGATAGC	ACTGGAGCTA	TTGTTGCATG	GAAC AAAGAG
781	GATGACAGTC	TCACTTTGTG	GACTACACCA	GATCCATCTC	CAAATTGCAA	GATA GCATCT
841	GACAAAGATG	CTAAACTCAC	ACTTTGCTTG	ACAAAATGTG	GTAGTCAGAT	ACTGGGCACT
901	GTCTCCTTGT	TAGCTGTGAG	TGGCAGTTTA	GCTCCTATCA	${\tt CTGGAGCTGT}$	GAGC ACTGCA
961	CTTGTATCAC	TTAAATTCGA	TGCCAATGGA	GCACTCTTGG	AAAAATCAAC	CCTA_AACAGA
1021	GAATATTGGA	ACTATAGACA	AGGAGATCTT	ATTCCAGGTA	CGCCATATAC	TCAC GCAGTA
1081	GGTTTCATGC	CCAACAAGAA	AGCCTACCCT	AAAAACACAA	CTGCAGCTTC	CAAA.AGCCAC
1141	ATTGTGGGAG	AAGTCTATCT	AGACGGAGAT	GCAGATAAGC	CCCTATCTCT	CATA_ATCACT
1201	TTTAATGAAA	CTGATGATGA	ATCATGTGAC	TATTGCATGA	ACTTTCAATG	GAAA TGGGGT
1261	GCTGATCAAT	ACAAGGACAA	AACACTCGCT	ACCAGCTCCT	TCACCTTCTC	CTACATTGCC
1321	CAAGAATGA	(SEQ ID NO:	: 13)			

1	ATGAAGCGCA	CCAAAACGTC	TGACGAGAGC	TTCAAC CCCG	TGTACCCCTA	TGACACGGAA
61	AGCGGCCCTC	CCTCCGTCCC	TTTCCTCACC	CCTCCC TTCG	TGTCTCCCGA	TGGATTCCAA
121	GAAAGCCCCC	CCGGGGTCCT	GTCTCTGAAC	CTGGCC GAGC	CCCTGGTCAC	TTCCCACGGC
181	ATGCTTGCCC	TGAAAATGGG	AAGTGGCCTC	TCCCTG-GACG	ACGCTGGCAA	CCTTACCTCT
241	CAAGATATTA	CCTCCACTAC	CCCTCCCCTC	AAAAAA_ACCA	AGACCAACCT	CAGCCTAGA
301	ACCTCATCCC	CCCTAACTGT	AAGCACCTCA	GGCGCC CTCA	CCGTAGCAGC	CGCCGCTCCC
361	CTGGCGGTGG	CCGGCACCTC	CCTCACCATG	CAATCA_GAGG	CCCCCTGGC	AGTACAGGA_T
421	GCAAAACTCA	CCCTGGCCAC	CAAAGGCCCC	CTGACC GTGT	CTGAAGGCAA	ACTGGCCTTG
481	CAAACATCGG	CCCCGCTGAC	GGCCGCTGAC	AGCAGC ACCC	TCACCGTTAG	CTCCACTCCA
541	CCAATTAGTG	TAAGCAGTGG	AAGTTTGGGC	TTGGAC ATGG	AAGACCCCAT	GTATACTCA_C
601	GATGGAAAAC	TGGGAATAAG	AATTGGGGGT	CCACTA_AGAG	TAGTAGACAG	CTTGCACACA
661	CTCACTGTAG	TTACCGGAAA	TGGACTAACT	GTAGAT AACA	ATGCCCTCCA	AACTAGAGTT
721	ACGGGCGCCC	TAGGTTATGA	CACATCAGGA	AATCTA_CAAC	TGAGAGCCGC	AGGGGGTATG
781	CGAATTGATG	CAAATGGCCA	ACTTATCCTT	GATGTG GCAT	ACCCATTTGA	TGCTCAAAAC
841	AATCTCAGCC			CTGTAT GTAA		
901	TTAAATTGCA	ACAGAGGTCT	AACCACAACT	ACCACC.AACA	ACACAAAAAA	ACTTGAGACT
961	AAAATTAGCT	CAGGCTTAGA	CTATGACACC	AATGGT GCTG	TCATTATTAA	ACTTGGCACT
1021	GGTCTAAGCT	TCGACAACAC	AGGCGCCCTA	ACTGTG GGAA	ACACTGGTGA	TGATAAACTG
1081				AATTGC AGAA	TTCACTCAGA	CAAAGACTGC
1141	AAGTTTACTC			AGCCAA_ATCC		CGCCGCCCTA
1201	GCGGTATCAG			GGCACC GTTG		CATCTTTCTT
1261	AGATTTGATC					GTACTGGAA_C
1321	TTCAGAAATG	GCAATTCAAC	TAATGCTGCC	CCCTAC_ACCA	ACGCAGTTGG	GTTCATGCCA
1381	AACCTCGCAG			CAGACT GCTA		TGTAAGTCAG
1441				ATGACC CTTA		CAATGGAAC T
1501				CACTAC TCCA		
1561				GCCACC AACT	CCTTCACCTT	TTCTTACATT
1621	GCTGAACAAT	AA (SEQ II	NO: 14)			
				_		
		-	FIG. 18	3		

1	ATGAAGCGCA	CCAAAACGTC	TGACAAGAGC	TTCAACCCCG	TGTACCCCTA	TGACACGGAA
61	AACGGTCCTC	CCTCCGTCCC	TTTCCTCACC	CCTCCCTTCG	TGTCTCCCGA	TGGATTCCAA
121	GAGAGCCCCC	CCGGGGTCCT	GTCTCTGAAC	CTGGCCGAGC	CCCTGGTCAC	TTCCCACGGC
181	ATGCTCGCCC	TGAAAATGGG	AAGTGGCCTC	TCCCTGGACG	ACGCCGGCAA	CCTCACCTCT
241	CAAGATGTCA	CCACCACTAC	CCCTCCCCTG	AAAAAAACCA	AGACCAACCT	CAGCCTAGAA
301	ACCTCAGCCC	CCCTGACTGT	GAGCACCTCA	GGCGCCCTCA	CCCTAGCAGC	CGCCGCCCC
361	CTGGCGGTGG	CCGGCACCTC	CCTCACCATG	CAATCAGAGG	CCCCCTGAC	AGTCCAAGAT
421	GCAAAACTCA	CCCTGGCCAC	CAAGGGCCCC	CTGACCGTGT	CTGAAGGCAA	ACTGGCCTTG
481	CAGACCTCGG	CCCCGCTGAC	GGCCGCTGAC	AGCAGCACCC	TCACCGTTAG	CGCCACACCA
541	CCCATCAGTG	TAAGCAGTGG	AAGTTTGGGC	TTAGACATGG	AAGACCCAAT	GTATACTCAT
601	GATGGAAAAC	TGGGAATAAG	AATTGGGGGC	CCACTGAGAG	TAGTAGACAG	CCTGCACACA
661	CTGACTGTAG	TTACCGGAAA	TGGAATAGCT	GTAGATAACA	ATGCCCTCCA	AACTAGAGTT
721	ACGGGCGCCC	TGGGTTATGA	CACATCAGGA	AACCTACAAC	TGAGAGCCGC	GGGGGGTATG
781	CGAATTGATG	CAAATGGCCA	ACTTATCCTT	GATGTGGCAT	ACCCATTTGA	TGCTCAAAAC
841	AATCTCAGCC	TTAGACTTGG	TCAGGGACCC	CTGTATGTAA	ACACAGACCA	CAACCTAGAT
901	TTGAATTGCA	ACAGAGGTCT	GACCACAACT	ACCACCAACA	ACACAAAAAA	ACTTGAAACT
961	AAAATTGGCT	CAGGCTTAGA	CTATGATACC	AATGGTGCTG	TTATTATTAA	ACTTGGCACT
1021	GGTGTCAGCT	TTGACAGCAC	AGGTGCCCTA	AGTGTGGGAA	ACACTGGCGA	TGATAAACTG
1081	ACTCTGTGGA	CAACCCCAGA	CCCATCTCCA	AATTGCAGAA	TTCACTCAGA	CAAAGACTGC
1141	AAGTTTACTC	TAGTCCTAAC	TAAGTGTGGA	AGTCAAATCC	TGGCTTCTGT	CGCCGCCCTA
1201	GCGGTGTCAG	GAAATCTGGC	TTCAATAACA	GGCACCGTTT	CCAGCGTTAC	CATCTTTCTC
1261	AGATTTGATC	AGAATGGAGT	GCTTATGGAA	AACTCCTCGC	TAGACAAGCA	GTACTGGAAC
1321	TTCAGAAATG	GTAATTCAAC	CAATGCCACC	CCCTACACCA	ATGCAGTTGG	GTTTATGCCA
1381	AACCTCGCAG	CATACCCCAA	GACACAGAGC	CAGACTGCAA	AAAACAACAT	TGTAAGTCAG
1441	GTTTACTTGA	ATGGGGACAA	ATCCAAACCC	ATGACCCTTA	CCATTACCCT	CAATGGAACT
1501	AATGAATCCA	GTGAAACTAG	CCAGGTGAGT	CACTACTCCA	TGTCATTTAC	GTGGGCTTGG
.1561	GAGAGTGGGC	AATATGCCAC	CGAAACCTTT.	GCCACCAATT	CCTTTACCTT	CTCTTACATT
1621	GCTGAACAAT	AA (SEQ II	NO: 15)			

FIG. 19

	65/101																											
100						LKKTKTNLSL	•							LKKTKTNLSL	:	LKKTKTNLSL	LKKTKTNLSL	LKKTKTNLSL		LKKTKTNLSL			LKKTKTNLSL			:	:	
	EENIN	SNTAT	SNTAT	SNTAT	SNTAT	SQDITTASPP	SNTAT	SNTAT	SKNAT	SNTAT	EENIS	SNTAT	SNTAT	SQDVTTTPP	SNTAT	SQDITSTTPP	SQDVTTTTPP	SQDITTASPP	EENIT	SQDVTTTPP	SNTAT	EENIT	SQDITTASPP	EENID	SNTAT	SNTAT	SNTAT	SKNAT
	LKVNSTDGFL	VDLDSSGKLI	VDLDSSGKLI	VDLDSSGKLI	VDLDSSGKLI	LSLDDAGNLT	VDLDSSGKLI	VDLDDSGKLI	VDLDDSGKLI	VDLDSSGKLI	LSVDDTDGSL	VDLDSSGKLI	VDLDSSGKLI	LSLDDAGNLT	VDLDSSGKLI	LSLDDAGNLT	LSLDDAGNLT	LSLDDAGNLT	LTVDNIDGSL	LSLDDAGNLT	VDLDDSGKLI	LTVDTIDGSL	LSLDDAGNLT	LKVDSTDGSL	VDLDSSGKLI	VDLDSSCKLI	VDLDSSGKLI	VDLDDSGKLI
	GALDIKVGGG	GEITLKLGEG	GEITLKLGDG	GEITLKLGEG	GEITLKLGEG	GMLALKMGSG	GEITLKLGEG	GEITLKLGDG	GAVTLKLGEG '	GEITLKLGEG .	GSLQLKVGGG	GEITLKLGEG	GEITLKLGEG .	GMLALKMGSG	GEITLKLGEG .	GMLALKMGSG	GMLALKMGSG	GMLALKMGSG	GPLQLKVGSS	GMLALKMGSG	GEITLKLGDG .	GPLQLKVGSS	GMLALKMGSG	GALDIKVGRG	GEITLKLGEG	CEITLKLGEG 1	GEITLKLGEG '	GAVTLKLGEG
	NĊVAPLTTAN	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN	NLAEPLVTSH	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN	KCLSPLTTG	RLADPVTTKN	RLADPVTTKN	NLAEPLVTSH	RLADPVTTKN	NLAEPLVTSH	NLAEPLVTSH	NLAEPLVTSH	KCVNPLTTAS	NLAEPLVTSH	RLADPVTTKN	KCVNPLTTAS	NLAEPLVTSH	KCVSPLTTTS	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN	RLADPVTTKN
	TOSPDGVLTL	QEKPLGVLSL	QEKPLGVLSL	QEKPLGVLSL	QEKPLGVLSL	<b>QESPPGVLSL</b>	QEKPLGVLSL	QEKPLGVLSL	QEKPLGVLSL	QEKPLGVLSL	TOSPDGVLTL	<b>OEKPLGVLSL</b>	<b>OEKPLGVLSL</b>	QESPPGVLSL	<b>OEKPLGVLSL</b>	OESPPGVLSL )	OESPPGVLSL.	OESPPGVLSL (	AQSPDGVLTL	<b>OESPPGVLSL</b>	QEKPLGVLSL	AQSPDGVLTL	QESPPGVLSL	TOSPDGVLTL	OEKPLGVLSL :	OEKPLGVLSL.		QEKPLGVLSL
	NPGFISPNGF	NPPFVSSDGF	NPPFVSSDGF	NPPFVSSDGF	NPPFVSSDGF	TPPFVSPDGF	NPPFVSSDGF	NPPFVSSDGF	NPPFVSSDGF	NPPFVSSDGF	NPGFISSNGF	NPPFVSSDGF	NPPFVSSDGF	TPPFVSPDGF	NPPFVSSDGF	TPPFVSPDGF	TPPFVSPDGF	TPPFVSPDGF	NPGFISSNGF	TPPFVSPDGF	NPPFVSSDGF	NPGFISSNGF	TPPFVSPDGF	NPGFISPDGF '	NPPFVSSDGF	NPPFVSSDGF		NPPFVSSDGF
	EN. SSHPFI	DN.APTVPFI	DN.APTVPFI	DN.APTVPFI	DN.APTVPFI	ESGPPSVPFL	DN.APTVPFI	DN.APTVPFI	DN.APTVPFI	DN.APTVPFI	ES.SSQHPFI	DN.APTVPFI	DN.APTVPFI	ENGPPSVPFL	DN.APTVPFI	ESGPPSVPFL	ENGPPSVPFL	ESGPPSVPFL	ES. SSOHPFI	ENGPPSVPFL	DN.APTVPFI	ES. SSQHPFI	ESGPPSVPFL	ES. SSOHPFI	DN.APTVPFI	ON. APTVPFI	DN.APTVPFI	DN.APTVPFI
	FNPVYPYED			DFDPVYPYDA	DFDPVYPYDA	. FNPVYPYDT		DFDPVYPYDA	DFDPVYPYDA	DFDPVYPYDA	SFNPVYPYED		DFDPVYPYDA		DFDPVYPYDA	. FNPVYPYDT	. FNPVYPYDT	.FNPVYPYDT	SFNPVYPYED	FNPVYPYDT.	DFDPVYPYDA	SFNPVYPYED	. FNPVYPYDT			JEDPVYPYDA J		DFDPVYPYDA :
7	MAKRTRLSSS			MSKKRVRVDD	MSKKRVRVDD ]	MKRTKTSDES		MSKKRVRVDD ]	MSKKRARVDD ]	MSKKRVRVDD ;	MT.KRVRLSS		MSKKRVRVDD 1			MKRTKTSDES	MKRTKTSDKS	MKRTKTSDES	MA.KRARLSS	MKRTKTSDES	MSKKRVRVDD 1		MKRTKTSDES					MSKKRARVDD 1
•	C1 1				_							•												•				CHAD82

	WO 2005/071093																											
200		HPFYT	rpfyn	APFYN	PLYT	DPMYT	HPFYT	PLYN	<b>PPLYN</b>	rpfyn	:	<b>IPFYT</b>	_				1 LAMAC	<b>APIYT</b>	GLQT	VPMYT	PLYN	GLQT	<b>APIYT</b>	•	PFYT	<b>PEYN</b>	IPFYT	PLYN
	•	SLNMDHPFYT	SLNMDTPFYN	SLKTAAPFYN	SLIMDTPLYT	GLDMEDPMYT	SLNMDHPFYT	SLNMDTPLYN	SLINMDTPLYN	SLINMDTPFYN	GLSIG	SLINMDHPFYT	SLNMDHPFYT	GIDMQAPIYT	SLIMMOTPFYT	GLDMEDPMYT	GLDMEDPMYT	GIDMOAPIYT	GLSIGSGLQT	GLDMENPMYT	SLNMDTPLYN	GLSIGSGLQT	GIDMQAPIYT	GLAFG	SLINMDTPFYT	SLKTAAPFYN	SLNMDHPFYT	SLNMDTPLYN
	•	APLSFSNNTI	APLSFSNNTI	APLSISNNTI	APLSFSNNTI	PPINVSSGSL	APLSFSNNTI	APLSFSNNTI	APLSISNNTI	APLSFSNNTI	APLNKTSHSI	APLSFSNNTI	APLSFSNNTI	PPLSTSNGSL	APLSFSNNTI	PPISVSSGSL	PPISVSSGSL		APLTKTNHSI	PPINVSSGSL	APLSFSNNTI	APLTKTNHSI	PPLSTSNGSL	APLTKFNHSV	APLSFSNNTI	APLSISNNTI	APLSFSNNTI	APLSISNNTI
	•	KAA	KAA	KAA			KAA	KAA	KAT	KAA	TI	KAA	KAA		KAA		DSSTLTVSAT	DSSTLTVSAT	AA		KAA			TI	KAA	KAA	KAA	KAT
			:			LQTSAPLTAA	•	:						LQTSAPLTAA	:	LQTSAPLTAA	LQTSAPLTAA	LOTSAPLTAA		LQTSAPLTAA			LQTSAPLTAA					:
					•	PLTVSEGKLA	•							PLTVSEGKLA	:	PLTVSEGKLA	PLTVSEGKLA	PLTVSEGKLA		PLTVSEGKLA			PLTVSEGKLA		:		:	
		:				DAKLTLATKG		:			:			DAKLTLATKG		DAKLTLATKG	DAKLTLATKG	DAKLTLATKG		DAKLTLATKG			DAKLTLATKG	:			•	:
	•	•				MOSEAPLTVQ								MOSEAPLTVQ		MOSEAPLAVO	MQSEAPLTVQ	MOSEAPLTVQ		MOSEAPLTVO		:	APLTVQ	:				
				• • • • • • • • • • • • • • • • • • • •		PLAVAGTSLT	:		:					PLAVAGISLT				PLAVAGTSLT		PLAVAGTSLT			PLAVAGTSLT					
			:	:		SGALTVAAAA PLAVAGTSLT MQSE			:			• • • • • • • • • • • • • • • • • • • •		SGALTLAAAV PLAVAGTSLT				SGALTVAAAA		SGALTLAAAA PLAVAGTSLT			SGALTVAAAA PLAVAGTSLT MQSE					
101						ETSPLTVST								ETSAPLTVST				ETSSPLTVST		ETSAPLTVST :			ETSSPLTVST.	•	:		:	
	CI	CV68	PANS	PAN6	PAN7	CHAD3	CHAD4	CHADS	CHAD6	CHAD7	CHADS	CURIO	CHAD10	CHADII	CHAD16	CHAD17	CHAD19	CHAD20	CHAD22	CHAD24	CHAD26	CHAD30	CHADSI	CHAD3 /	CHAD30	CHAD44	CHAD63	CHADOZ

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OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	

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300  SNISWAKGLK ANISWANAMT ANISLKRGLV SNISWPKGIR LSLRLGQGPL SNISWANAMT INISWANAMT ISLRLGQGPL LSLRLGQGPL LSLRLGQGPL ISLRLGQGPL INISWANAMT SNISWPKGIR ANISLKRGLV SNISWAKGLK INISWANAMT
LHVTTGDAIE  YVTTTKDALE INSSGNRGLE TVTTSGDAIE VAYPFDAQNN LHVTTGDAIE YVTTTKDALE YVTTTKDALE YVTTTKDALE YVTTTGDAIE VAYPFDAQNN YVTTTGDAIE LHVTTGDAIE CHVTTGDAIE VAYPFDAQNN YVTTTGDAIE VAYPFDAQNN YAYPFDAQNN VAYPFDAQNN VAYPFDAQNN YAYPFDAQNN YAYPFDAQNN YAYPFDAQNN TYTTKDALE VAYPFDAQNN YVTTTKDALE
RLAINCNRGLLY RLSINCKRGY QLILIN RLNINCKRGI RLAINCKRGI RLAINCKRGI CLILID QLILID QLILID QLILID QLILID QLILID QLILID QLILID QLILID QLILID RLSINCKRGI CLILID RLSINCKRGI CLILID RLSINCKRGI CLILID RLSINCKRGI CLILID RLSINCKRGI
DRG  GNGPLKVDAN DKG  ASGPLTVDAS AGGMRIDANG DRG  GNGPLKVDAN GNGPLKVDAN GNGPLKVDAN GNGPLKVDAN GNGPLKVDAN GGGMRIDANG AGGMRIDANG BNGPLKVDAN ASGPLITVDAS DRGLYIN. DRGLYIN. DRGLYIN.
DETDGNIKLTL DSNSKIALNL SSNS.ITVKT DEKGNIKINL DTSGNLQLRA DTDGNIKLTL NTASKIALNL DTDGNIKLTL DTDGNIKLTL DTDGNIKLTL DTDGNIKLTL DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA NTASKIALNL DTSGNLGLRA DTSGNLGLRA DTSGNLGLRA NTASKIALNL SSNS.ITVKT DEKGNIKLTL SSNS.ITVKT DTDGNIKLTL SSNS.ITVKT
AVQLVSPLTF VAQLASPLAF TVQLTHPLTF AVQLASPLTF QTRVTGALGY AVQLASPLTF VAQLAYPLVF VAQLAYPLVF VAQLASPLTF TVQLVSPLTF AVQLVSPLTF QTRVTGALGY TVQLAYPLYF TVQLAYPLYF TVQLAYPLTF AVQLASPLTF TVQLTHPLTF
GLGLRG.SAL GLGTSN.KLL GLGTSN.KLL GLGLSGGTAL GLGLRG.SAL GLGTNTNGAL GLGTNTTGAL CLGTNTTGAL CLGTNTTGAL GLGTNTTGAL GLGTNT SAL GLGLRG.SAL GLGLRG.SAL GLGLRG.TAL GLGLNO.NAL GLTVDN.NAL GLTVDN.NAL GLGTNT SAL GLGTNT SAL
LNTLALGEGS LKTLVVAYGQ FNTLGISLGN LNTLAVAYGS LHTLTVVTGN LKTLVVAYGQ LKTLVVAYGQ LKTLVVAYGQ LNTLALGEGS LNTLALGEGS LNTLALGEGS LNTLAMAYGQ LNTLAMAYGQ LNTLAMAYGQ LNTLAMAYGQ LNTLAMAYGQ CLSLG LHTLTVVTGQ CLSLG LHTLTVVTGQ CLSLG LNTLAVAYGG CLSLG LNTLAVAYGG CLSLG LNTLAVAYGG CLSLG LNTLAVAYGG LNTLAVAYGG CLSLG LNTLAVAYGG
PPLNILRTSI APLAVFPT PPLNILKSTI GPLRVVDS PPLNILLDTDL APLKILDTDL APLKILDTDL APLKILDTDL APLKILDTDL APLKILDTDL APLKILDTDL APLKILDTDL APLKYVDS GPLRVVDS GPLRVVDS APLHVVDS
201  KDGKLSLQVS NNGTLSLNVS KDGKLSLQVS HDGKLGIRIG KDGKLSLQVS NNGKLGMKVT NNGKLGMKVT NNGKLGMKVT NNGKLGMKVT NNGKLGMKVT THOGKLSLQVS TNGKLGLNFG KDGKLTMQVT HDGKLGIRIG TNGKLGIRIG NNGTLSLNYS KDGKLSLNYS KDGKLSLNYS NNGTLSLNYS NNGTLSLNYS NNGKLGMKVT
C1 CV68 PAN5 PAN6 PAN7 CHAD3 CHAD4 CHAD7 CHAD10 CHAD11 CHAD11 CHAD10 CHAD12 CHAD12 CHAD22 CHAD22 CHAD22 CHAD22 CHAD23 CHAD33 CHAD33 CHAD34 CHAD34 CHAD34 CHAD36 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37 CHAD37

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400 SSSAIAMEN. STGAIMAGNK STGAIVAWNK	STGALVAWNK NTGALTVGNT STGALWAGNK STGALVAWNK STGALVAWNK TGSICIDTDI STGALMAGNK STGALMAGNK	
VKLGKGLVFD VKLGSGLSFD IKLGAGLTFD VKLGTGLSFD	VKLGTGLTFD IKLGTGLSFD VKLGSGLSFD VKLGAGLTFD VKLGAGLTFD VKLGAGLTFD VKLGAGLTFD VKLGSGLSFD VKLGSGLSFD VKLGSGLSFD	AKLGAGLAFD IKLGTGKSFD IKLGTGKSFD AKLGTGKSFD AKLGTGKSFD AKLGTGKSFD VKLGAGLTFD AKLGTGKFSFD VKLGAGLTFD VKLGAGLTFD VKLGTGLFFD VKLGTGLFFD VKLGTGLFFD VKLGTGLFFD VKLGAGLTFD
GLQTNEAKLC TGVDDAYPIQ ADVKNAYPIQ T.NFDANKATA	TDVTDAYPIQ LDYDTNGAVI TGVDDAYPIQ TDVKNAFSLQ ADVKNAFPLQ ADVKNAYPIQ GLETKNNQLC TGVDDAYPIQ TGVDDAYPIQ	
NHSIGLEWSD	T	
ITSPLTKS		GLOFDSGSDT
	C. C	
	TS.  SS.  SS.  TNNTKKLET.  SS.  TS.  TS.  TS.  SS.  SS.  SS.	TS
SS TS		
G.NGLEFGS DTQKGLQFGT	GRGLEFGT NCNRGLTTTT GNGLEFGS DTKKGLQFGT DTQKGLQFGT  GNGLEFGS GNGLEFGS	DINKGLOFGT NCNRGLTTTT NCNRGLTTTT NYNRGLYLFT OTKKGLOFGT OTKKGLOFGT OTKKGLOFGT G.RGLEFGT G.NGLDYGS G.NGLEFGT
301 r FEDGALATNI FIGNAMGVNI FDGNATATYT	FEGNGIAANT YINTDHNLDL FEDGALATNI FIGNALGVNI FIGNALGVNI FIGNAMGVNI FEDGALATNI FEDGALATNI FEDGALATNI	FUNDAMINDO YUNTDHNLDL YUNTDHNLDL FUNSAHNLDV TIGNAIGVNI FUGNAIGVNI FEGDAIAANI FEGDAIAANI FEGDAIAANI FEGGAIATNI FEDGAIATNI FIGNAIGVNI

C1 CV68 PAN5 PAN6 PAN6 CHAD3 CHAD4 CHAD5 CHAD1 CHAD10 CHAD11 CHAD11 CHAD10 CHAD10 CHAD20 CHAD20 CHAD20 CHAD30 CHAD31 CHAD

FIG. 20D

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HKSG..QGTS NYRQ.GDLIP NFRK.GDVTP NYRQ.GDLIP NFRK.GDVTP NFRK. GDVTP GYRQ.GDSID NYRK. GDL/TE NFRN. GNSTN NFRN. GNSTN NYRK. GDLTE NFRN. GNSTN NFKDNONMAT NFRN. GNSTN NEKDNONMAT S.STLDKEYW NFRK.GDVTP S.STLDKEYW S. STLDKEYW N. SSLDPQYW K.STLNREYW N. SSLDKQYW N.SSLDKQYW N. SSLDPOYW N. SSLDKOYW K. STLNKEYW E.HSTLKKYW N. SSMVGDYW N. SSLDRQYW E.HSTLKKYW K.STLNKEYW S. STLDKEYW DLSALKTELK E.HSTLKKYW E.HSTLKKYW AFDNTGOILT YLSSLKS.NL YLSSLKS.NL ELSALKTDLK N. SSMVGDYW RFDQNGVLME RFDQNGVLME RFDANGVLLT KFDASGVLLS RFDANGVLLT KFDANGVLQA YFDAQGKLLP RFDENGVLLS KFDANGALLE RFDQNGVLME RFDENGVLLS KFNANGALLD AFDNTGQIIT RFDENGVLLS YFDNQGKVLT KFDANGVLQA KFDANGVLQS RFDSDGVLMS RFDQNGVLME KFNANGALLD KFDANGVLQT RFDANGVLLT RFDANGVLLT RFDSDGVLMS AFDNTGOIIT RFDANGVLLT KFDASGVLLS NKOVTIDVNL GTVSSAQVFL DTVKSAIVFL GOVTTALVSL GTVSSAQVFL NKQVTIDVNL GTVSSVTIFL GAVRTALVSL NKQVTIDVNL GTVTSAQIVL GTVSSAQVFL GTVTTALVSL NTVSTALVSL GTVASVTIFL GTVSSAQVFL GAVRTALVSL GKVTTALVSL ETSAQIIADI GTVSSAQVFL GTVTSAQIIL GAVSTALVSL GTVASVTIFL GTVSSVTIFL GTVTSAQIVL EKSAQITVDI NTVSTALVSL DTVKSAIVFL GKVTTALVSL NN. GSLNPIT S. EYTNTLFK S..GNLASIT S. EYTNTLFK NN. GSLNPIT SE. YTNTLFK GS. GNLNPIT DT. GSLNPIT TVGSALNPIN S..GNLASIT GS.GNLNPIT S..GSLAPIT DT.GSLNPIT DT. GSLNPIT SD. AVNDLTT GS. GDLNPIT GS. GNENPIT K..GSLAPIS S..GSLAPIT S..GNLASIT S..GNLASIT K..GSLAPIS S..GSLAPIT K..GSLAPIS SD. TVNKLTT TVGSALNPIN GS. GNLNPIT DT.GSLNPIT ILGTVSLIAV ILGTVAVAAV ILATVSVLVV ILGTVSLIAV ILGTVSLIAV ILGTVAVAAV ILGTVTVLAV ILGTVSLLAV ILGTVSLIAV VLASVSVLSV VLASVSVLSV ILGTVTVLAV ILASVAALAV ILATVSVLVV VNAYVALVGA ILATVSVLVV ILASVAALAV ILASVAALAV ILASVAALAV ILGTVSLLAV VLASVSVLSV INAYVSLMGD ILATVSVLVV ILATVSVLVV ILGTVSLLAV INGYITLMGA VNGYITLMGD INGYITIMGA TLVLVKNGGL TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLVLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLVLTKCGSQ TLVLTKCGSQ TLVLTKCGSQ TLCLTKCGSQ TLVLTKCGSQ TLILVKSGGL TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLCLTKCGSQ TLALVKSGAL TLCLTKCGSQ TLCLTKCGSQ TLVLTKCGSQ TLVLTKCGSQ TLVLVKNGGL TLVLVKNGGL SD...KDCKF SA...KDAKL SD...KDAKL SE...KDAKF SD...KDAKL SD...KDCKF SD...KDCKF SE...KDAKF SE...KDAKF SE. . KDAKL SD...RDAKF AEN...DAKL SA...KDAKL SE...KDAKL AE...NDAKL SA...KDAKL GTES.NDCKL AE...NDAKL EGEDSPDCKL SD...KDCKF SA...KDAKL EGEDSPDCKL DNGETNDSKL AE...NDAKL SE...KDAKL SD...RDAKF AE...NDAKL EGEDSPDCKL AKPSANCVIK PDPSPNCQIL PDPSPNCQIL PDPSPNCQIL PDPSPNCRIH PDPSPNCQIL ADPSPNCHIY ADPSPNCHIY ATPDANCLVL PDPSPNCQIL PDPSPNCRIY PDPSPNCRIH PDPSPNCRIH PDPSPNCRIH VNPSANCIIT PDPSPNCOLL ADPSPNCHIY PDPSPNCQLL ADPSPNCKIY PDPSPNCKIA PDPSPNCRIY AKPSANCVIK ADPSPNCHIY AKPSANCVIK PDPSPNCRIY ADPSPNCKIY ADPSPNCHIY ADPSPNCHIY EDDKLTLWTT **DDDKLTLWTT** EDDKLTLWTT SDDKLTLWTT EDDKLTLWTT SDDKLTLWTT EDDKLTLWTT EDDKLTLWTT N...TLWTG EDDKLTLWTT NDDKLTLWTT EDDSLTLWTT GDDKLTLWTT GDDKLTLWTT NDDKLTLWTT ....NTLWTG GDDKLTLWTT EDDKLTLWTT ....NTLWTG NDDKLTLWTT N...TLWTG EDDKLTLWTT ODDKLTLWTT EDDKLTLWTT EDDKLTLWTT DDDKLTLWTT EDDKLTLWTT CHAD5 CHAD7 CHAD8 CHAD3 CHAD4 CHAD16 CHAD19 CHAD20 CHAD24 CHAD26 CHAD10 CHAD17 CHAD31 CHAD38 CHAD44 CHAD63 CHAD82 CHAD6 CHAD9 CHAD22 CHAD30 CHAD37 CHAD11

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009	FPLK VTVTLNRRMS ASGMAY AMNFSWSLNA EEAPETTEVT LITSPFFFSY	.VSKPML LTITLNGTDD SNSTY SMSFSYTWTN GSYVGAT FGANSYTFSY	TGKPLD LIITFNETSD ESCTY CINFQWQWGA DQYKNET LAVSSFTFSY	TIMPMI LIIIFNGIDE KDIT. PVSTY SMIFIWQWIG DYKDKNIT FAINSFSFSY	EAKPLM LIITFNETED ATCTY SITFQWKWDS TKYTGET LATSSFTFSY	KSKPMT LITINGTNE SSETSQVSHY SMSFTWAWES GQYATET FATNSFTFSY	.VSKPML LTITLNGTDD SNSTY SMSFSYTWTN GSYVGAT FGANSYTFSY	ADKPLS LIITFNETDD ETCDY CINFQWKWGA DQYKDKT LATSSFTFSY	ESKPLD LIITFNETSD ESCTY CINFQWQWGT DQYKDET LAVSSFTFSY	KPLD LIITFNETSD ESCTY CINFQWKWDS TKYTGET LATSSFTFSY	FELK TSVMLNYKIT SGLCAY AMHFQWSWNS GIKPEDTPAT FIASPFVFSY	LITILNGTDD SNSTY SMSFSYTWIN GSYVGAT FGANSYTFSY	LITILNGTDD SNSTY SMSFSYTWTN GSYVGAT FGANSYTFSY	FQTNSFTFSY	CMNFQWKWGA DQYKDKT LATSSFTFSY	KSKPMT LTITLNGTNE SSETSQVSHY SMSFTWAWES GQYATET FATNSFTFSY	KPMT LTITLNGTNE SSETSQVSHY SMSFTWAWES GQYATET FATNSFTFSY	KSKPMT LTITLNGTNE TGD.ATVSTY SMSFSWNWNG SNYINET FQTNSFTFSY	PPIK VTVTINRRMS ASGMAY AMNFSWSINA EEAPETTEVT LITSPFFFSY	KPMI LTITLNGTNE SSETSQVSHY SMSFTWAWES GQYATET FATNSFTFSY	KPLS LIITFNETDD ETCDY CINFQWKWGA DQYKDKT LATSSFTFSY	PPLK VTVTLNRRMS ASGMAY AMNFSWSLNA EEAPETTEVT LITSPFFFSY	KPMT LTITLNGINE IG.DATVSTY SMSFSWNWNG SNYINET FQTNSFIFSY	TTITLNHSVI SSLCAY AMHISWSWDT VTEPETTPTT	ETKPLM LIITFNETED ATCTY SITFQWKWDS TKYTGKT LATSSFTFSY	.TMPMT LTITENGTDE KDTTP.VSTY SMTFTWQWTG DYKDKNIT FATNSFSFSY	LITTENETSD ESCTY CINFOWRWGT DQYKDET
	TYATQSIN.E DYIYGECYYK STNGTLFPLK	KSQSSTTK NNIVGQVYMN GDVSK	KNTSGAAK SHIVGKVYLH GDTGK	KTQSKTPK NSIVSQVYLT GETTM	KNTSAASK SHIVSQVYLN GDEAK	KTQSQTAK NNIVSQVYLN GDKSR	KSQSSTTK NNIVGQVYMN GDVSK	KNTTAASK SHIVGDVYLD GDADR	KNTNAAAK SHIVGKVYLH GDESK	KNTSGAAK SHIVGKVYLH GDTDKPLD	LRPNGGNG NYIYGTTYYR ARDETLYELK	KSQSSTTK NNIVGQVYMN GDVSKPML	KSQSSTTK NNIVGQVYMN GDVSKPML	KTQSQTAK SNIVSQVYLN GDKSK	KNTTAASK SHIVGEVYLD GDADR	KTQSQTAK NNIVSQVYLN GDKSK	KTQSQTAK NNIVSQVYLN GDKSKPMT	.KTQSQTAK SNIVSQVYLN GDKSF	TYATQSLN.E DYIYGECYYK STNGTLFPLK	KTQSQTAK NNIVSQVYLN GDKSKPMI	KNTTAASK SHIVGDVYLD GDADKPLS	TYATQSLN.E DYIYGECYYK STNGTLFPLK	KTQSQTAK SNIVSQVYLN GDKSKPMT	NPTKPTKGRE DYIYGITYYQ ATDGNLYELK	SHIVSQVYLN GD	. KTQSKTPK NSIVSQVYLT GET. TMPMT	SHIVGKVYLH GD.
501	GTIT. SAKGF MPSTTAYPFI	GTPYTNAVGF MPNLKAYP	AEAYTNAIGF MPNLKAYP	SVAYTNAVGF MPNIGAYP	AEPYTNAIGF MPNIKAYP	AAPYTNAVGF MPNLAAYP	GTPYTNAVGF MPNLKAYP	GTPYTHAVGF MPNKKAYP	ADPYTNAIGF MPNLNAYP	AEPYTNAIGF MPNLKAYP	TADPNNCKSF MPSLNAYP	GIPYANAVGF MPNLKAYP	GTPYTNAVGF MPNLKAYP	GTAYTNAVGF MPNLTAYP	GTPYTHAVGF MPNKKAYP	AAPYTNAVGF MPNLAAYP	ATPYTNAVGF MPNLAAYP	GTAYTNAVGF MPNLTAYP	GTIT.SAKGF MPSTTAYPFI	ATPYTNAVGF MPNLAAYP	GTPYTHAVGF MPNKKAYP	GTIT. SAKGF MPSTTAYPFI	GTAYTNAVGF MPNLTAYP	SSEVSNCKGF MPSLNAYPFR	AEPYTNAIGF MPNIKAYP	SVAYTNAVGF MPNIGAYP	
	CI	CV68	PAN5	PAN6	PAN7	CHAD3	CHAD4	CHAD5	CHAD6	CHAD7	CHAD8	CHAD9	CHAD10	CHAD11	CHAD16	CHAD17	CHAD19	CHAD20	CHAD22	CHAD24	CHAD26	CHAD30	CHAD31	CHAD37	CHAD38	CHAD44	CHAD82

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CV68 IREDD
CV68 IAQE.
PAN5 IAQE.
PAN6 IAQE.
CHAD3 IAQE.
CHAD4 IAQE.
CHAD5 IAQE.
CHAD7 IAQE.
CHAD1 IAQE.
CHAD2 IAEQ.
CHAD3 IAEQ.
CHAD3 IAED
CHAD3 IAED
CHAD3 IREDD
CHAD3 IAQE.
CHAD3 IAQE.
CHAD3 IREDD
CHAD3 IREDD
CHAD3 IAQE.
CHAD3 IREDD
CHAD3 IAQE.
CHAD3 IAQE.
CHAD3 IAQE.
CHAD3 IAQE.
CHAD3 IAQE.
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			12/101			
1	ATGGCGACCC	CATCGATGAT	GCCGCAGTGG	TCGTACATGC	ACATCTCGGG	CCAGGACGCC
61	TCGGAGTACC	TGAGCCCCGG	GCTGGTGCAG	TTCGCCCGCG	CCACCGAGAG	CTACTTCAGC
121	CTGAGTAACA	AGTTTAGGAA	CCCCACGGTG	GCGCCCACGC	ACGATGTGAC	CACCGACCGG
181	TCTCAGCGCC	TGACGCTGCG	GTTCATTCCC	GTGGACCGCG	AGGACACCGC	GTACTCGTAC
241	AAGGCGCGGT	TCACCCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CTCCACCTAC
301	TTTGACATCC	GCGGGGTGCT	GGACCGGGGT	CCCACTTTCA	AGCCCTACTC	TGGCACCGCC
361	TACAACTCCC	TGGCCCCCAA	GGGCGCTCCC	AACCCATGCG	AGTGGGATGA	GGCTGCTACT
421	GCCCTTGACA	TTGATTTGAA	CGCAGAAGAC	GATGAAGAAA	GCGACGAAGC	TCAAGGGGAA
481	GCAGATCAGC	AGAAAACTCA	TGTATTTGGC	CAGGCGCCCT	ACTCCGGACA	GAACATTACA
541	AAAGAAGGCA	TACAGATAGG	CATAGATGCT	GCCAGTCAAG	CCCAGACACC	TGTATATGCC
601	GATAAAACAT	TCCAACCAGA	ACCTCAAGTT	GGAGAATCAC	AGTGGAATGA	GACAGAGATT
661	AGTTATGGAG	CGGGACGGGT	GCTTAAAAAA	ACCACTCTCA	TGAAACCTTG	CTATGGGTCG
721	TATGCAAGGC	CTACTAATGA	GAACGGAGGT	CAGGGCATCC	TCTTGGAACA	<b>AGATGGAAAG</b>
781	AAAGAAAGTC	AAGTGGAAAT	GCAATTTTTC	TCTACTACTC	AGGCAGCCGC	GGGTAATTCA
841	GATAATCCTA	CCCCAAAGGT	TGTTTTGTAC	AGCGAGGATG	TTAACCTGGA	AACACCAGAT
901	ACACACATTT	CATACATGCC	CACCAACAAC	GAGACAAATT	CAAGAGAGCT	TTTGGGACAA
961	CAGGCCATGC	CCAACAGGCC	TAATTACATT	GGCTTCAGAG	ACAACTTTAT	CGGTCTCATG
1021	TATTACAACA	GCACTGGCAA	CATGGGAGTG	CTTGCAGGTC	AGGĊCTCTCA	GTTGAACGCA
1081	GTGGTGGACT	TGCAAGACAG	AAACACAGAA	CTGTCATACC	AGCTCTTGCT	TGATTCCATG
1141	GGTGACAGAA	CCAGATACTT	TTCCATGTGG	AATCAGGCAG	TGGACAGTTA	TGACCCAGAT
1201	GTCAGAATTA	TTGAAAATCA	TGGAACTGAA	GACGAGCTCC	CCAACTATTG	TTTCCCTCTG
1261	GGCGGCGTAA	TCAATACGGA	AACTTTCACA	AAAGTAAAAC	CTAAAGCTGC	ACAGGACGCT
1321	CAGTGGGAAA	AAGATTCAGA	ATTTTCAGAT	AAAAATGAAA	TAAGGGTGGG	AACAACTTC
1381	GCCATGGAAA	TTAACCTCAA	TGCCAATCTG	TGGAGGAACT	TTTTGTACTC	CAACGTAGCC
1441	CTCTACTTGC	CTGACAAGCT	TAAGTATACT	CCATCCAATG	TGCAAATTTC	CAACAATCCC
1501	AACTCCTACG	ATTACATGAA	CAAGCGAGTG	GTGGCCCCGG	GGCTGGTGGA	CTGCTACATC
1561	AACCTGGGCG	CGCGCTGGTC.	GCTGGACTAC	ATGGACAACG	TCAACCCCTT	CAACCACCAC
1621	CGCAATGCGG	GCCTGCGCTA	CCGCTCCATG	CTCCTGGGCA	ACGGGCGCTA	CGTGCCCTTC
1681	CACATCCAGG	TGCCCCAGAA	GTTCTTTGCC	ATCAAGAACC	TCCTCCTCCT	<b>⇔</b> CCGGGCTCC
1741	TACACCTACG	AGTGGAACTT	CAGGAAGGAT	GTCAACATGG	TCCTCCAGAG	CTCTCTGGGT
1801	AACGATCTCA	GGGTGGACGG	GGCCAGCATC	AAGTTCGAGA	GCATCTGCCT	CTACGCCACC
1861	TTCTTCCCCA	TGGCCCACAA	CACGGCCTCC	ACGCTCGAGG	CCATGCTCAG	GAACGACACC
1921	AACGACCAGT	CCTTCAATGA	CTACCTTTCC	GCCGCCAACA	TGCTCTACCC	CATACCCGCC
1981	AACGCCACCA	ACGTCCCCAT	CTCCATCCCC	TCGCGCAACT	GGGCGGCCTT	CCGCGGCTGG
2041	GCCTTCACCC	GCCTCAAGAC	CAAGGAGACC	CCCTCCCTGG	GCTCGGGATT	CGACCCCTAC
2101	TACACCTACT	CGGGCTCCAT	TCCCTACCTG	GACGGCACCT	TCTACCTCAA	CCACACTTTC
2161	AAGAAGGTCT	CGGTCACCTT	CGACTCCTCG	GTCAGCTGGC	CGGGCAACGA	CCCTCTCCTC
2221	ACCCCCAACG	AGTTCGAGAT	CAAGCGCTCG	GTCGACGGGG	AGGGCTACAA	C GTGGCCCAG
2281	TGCAACATGA	CCAAGGACTG	GTTCCTGGTC	CAGATGCTGG	CCAACTACAA	CATCGGCTAC
2341	CAGGGCTTCT	ACATCCCAGA	GAGCTACAAG	GACAGGATGT	ACTCCTTCTT	CAGGAACTTC
2401	CAGCCCATGA	GCCGGCAGGT	GGTGGACCAG	ACCAAGTACA	AGGACTACCA	G-GAGGTGGGC
2461	ATCATCCACC	AGCACAACAA	CTCGGGCTTC	GTGGGCTACC	TCGCCCCCAC	C_ATGCGCGAG
2521	GGACAGGCCT	ACCCCGCCAA	CTTCCCCTAC	CCGCTCATAG	GCAAGACCGC	G-GTCGACAGC
2581	ATCACCCAGA	AAAAGTTCCT	CTGCGACCGC	ACCCTCTGGC	GCATCCCCTT	C TCCAGCAAC
2641	TTCATGTCCA	TGGGTGCGCT	CTCGGACCTG	GGCCAGAACT	TGCTCTACGC	C_AACTCCGCC
2701	CACGCCCTCG	ACATGACCTT	CGAGGTCGAC	CCCATGGACG	AGCCCACCCT	T CTCTATGTT
2761	CTGTTCGAAG	TCTTTGACGT	GGTCCGGGTC	CACCAGCCGC	ACCGCGGCGT	C_ATCGAGACC
2821	GTGTACCTGC	GTACGCCCTT	CTCGGCCGGC	AACGCCACCA	CCTAA (SEQ	ID NO: 16)

			,			
1	ATGGCCACCC	CATCGATGCT	GCCCCAGTGG	GCGTACATGC	ACATCGCCGG	ACAGGACGCT
61	TCGGAGTACC	TGAGTCCGGG	TCTGGTGCAG	TTCGCCCGCG	CCACAGACAC	CTACTTCAGT
121	CTGGGGAACA	AGTTTAGGAA	CCCCACGGTG	GCGCCCACGC	ACGATGTGAC	CACCGACCGC
181	AGCCAGCGGC	TGACGCTGCG	CTTCGTGCCC	GTGGACCGCG	AGGACAACAC	CTACTCGTAC
241	AAAGTGCGCT	ACACGCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CAGCACCTAC
301	TTTGACATCC	GCGGCGTGCT	GGATCGGGGC	CCTAGCTTCA	AACCCTACTC	CGGCACCGCC
361	TACAACAGCC	TGGCTCCCAA	GGGAGCGCCC	AATTCCAGCC	AGTGGGAGCA	AAAAAAGACT
421		CCAATGGAGA				
481	ATTGACATCG	ATAAAAATGG	CCTTCAAATT	GGAACCGATG	ACACCAAAGA	TGACGATAAT
541		CAGACAAAAC				
601		CCTACTATGG				
661		TTGCCAGACC				
721		AGTCATTTGA				
781		CAAATGTTAA				
841		CAGATACTCA				
901		GTCAGCAATC				
961		TTATGTACTA				
1021		ATGCCGTGGT				
1081	TTGCTTGACT	${\tt CTCTGGGTGA}$	CAGAACCAGG	TATTTCAGTA	TGTGGAATCA	GGCGGTGGAC
1141		CTGATGTGCG				
1201	TATTGCTTCC	CCTTGGATGG	AGCAGGCACC	AATTCGGTTT	ACCAAGGTGT	TAAACCAAAA
1261		GCAACGATCA				
1321		ATATCTATGC				
1381		ACGTGGCCCT				
1441		CCAACACCAA				
1501	CTGGTGGACG	CCTACATCAA	CATCGGGGCG	CGCTGGTCGC	TGGACCCCAT	GGACAACGTG
1561	AATCCCTTCA	ACCACCACCG	CAACGCGGGC	CTGCGCTACC	GCTCCATGCT	CCTGGGCAAC
1621	GGGCGCTACG	TGCCCTTCCA	CATCCAGGTG	CCCCAGAAAT	TTTTCGCCAT	CAAGAGCCTC
1681	CTGCTCCTGC	CCGGGTCCTA	CACCTACGAG	TGGAACTTCC	GCAAGGACGT	CAACATGATC
1741	CTGCAGAGCT	CCCTCGGCAA	CGACCTGCGC	ACGGACGGGG	CCTCCATCTC	CTTCACCAGC
1801	ATCAACCTCT	ACGCCACCTT	CTTCCCCATG	GCGCACAACA	CGGCCTCCAC	GCTCGAGGCC
1861	ATGCTGCGCA	ACGACACCAA	CGACCAGTCC	TTCAACGACT	ACCTCTCGGC	GGCCAACATG
1921	CTCTACCCCA	TCCCGGCCAA	CGCCACCAAC	GTGCCCATCT	CCATCCCCTC	GCGCAACTGG
1981	GCCGCCTTCC	GCGGCTGGTC	CTTCACGCGC	CTCAAGACCC	GCGAGACGCC	CTCGCTGGGC
2041	TCCGGGTTCG	ACCCCTACTT	CGTCTACTCG	GGCTCCATCC	CCTACCTCGA	CGGCACCTTC
2101	TACCTCAACC	ACACCTTCAA	GAAGGTCTCC	ATCACCTTCG	ACTCCTCCGT	CAGCTGGCCC
2161	GGCAACGACC	GCCTCCTGAC	GCCCAACGAG	TTCGAAATCA	AGCGCACCGT	CGACGGAGAG
2221	GGATACAACG	TGGCCCAGTG	CAACATGACC	AAGGACTGGT	TCCTGGTCCA	GATGCTGGCC
2281	CACTACAACA	TCGGCTACCA	GGGCTTCTAC	GTGCCCGAGG	GCTACAAGGA	CCGCATGTAC
2341		GCAACTTCCA				
2401		CCGTCACCCT				
2461		TGCGCCAGGG				
2521	AAGAGCGCCG	TCACCAGCGT	CACCCAGAAA	AAGTTCCTCT	GCGACAGGGT	CATGTGGCGC
2581	ATCCCCTTCT	CCAGCAACTT	CATGTCCATG	GGCGCGCTCA	CCGACCTCGG	CCAGAACATG
2641		ACTCCGCCCA				
2701		TCTATGTTGT				
2761		TCGAGGCCGT				
2821		D NO: 17)				

1	ATGGCCACCC	CATCGATGCT	GCCCCAGTGG	GCGTACATGC	ACATCGCCGG	ACAGGACGCT
61	TCGGAGTACC	TGAGTCCGGG	TCTGGTGCAG	TTCGCCCGCG	CCACAGACAC	CTACTTCAGT
121	CTGGGGAACA	AGTTTAGGAA	CCCCACGGTG	GCGCCCACGC	ACGATGTGAC	CACCGACCGC
181	AGCCAGCGGC	TGACGCTGCG	CTTCGTGCCC	GTGGACCGCG	AGGACAACAC	CTACTCGTAC
241	AAAGTGCGCT	ACACGCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CAGCACCTAC
301	TTTGACATCC	GCGGCGTGCT	GGATCGGGGC	CCTAGCTTCA	AACCCTACTC	CGGCACCGCC
361	TACAACAGCC	TGGCTCCCAA	GGGAGCGCCC	AATTCCAGCC	AGTGGGAGCA	AAAAAAGACT
421		CCAATGGAGA				
481	ATTGACATCG	ATAAAAATGG	CCTTCAAATT	GGAACCGATG	ACACCAAAGA	TGACGATAAT
541	GAAATTTATG	CAGACAAAAC	ATATCAGCCT	GAGCCGCAAA	TAGGAGAGGA	AAACTGGCAA
601		CCTACTATGG				
661		TTGCCAGACC				
721	GGAGATGTTA	AGTCATTTGA	CATAGACCTA	GCCTTCTTTG	ATATTCCCAA	TTCTGGCGCG
781	GGAAATGGCA	CAAATGTTAA	CGATGATCCA	GATATGGTTA	TGTATACAGA	AAATGTAAAT
841		CAGATACTCA				
901	GTCAACTTGT	GTCAGCAATC	CATGCCTAAC	AGACCCAATT	ATATTGGCTT	CAGAGACAAT
961	TTTATTGGGC	TTATGTACTA	CAACAGCACT	GGCAATATGG	GTGTGCTGGC	TGGTCAGGCC
1021	TCTCAACTGA	ATGCCGTGGT	GGACTTGCAA	GACAGAAACA	CAGAGCTGTC	CTACCAGCTC
1081		CTCTGGGTGA				
1141	AGTTATGATC	CTGATGTGCG	CATTATTGAA	AACCATGGTG	TGGAGGATGA	ATTGCCAAAC
1201		CCTTGGATGG				
1261	ACTGACAATG	GCAACGATCA	GTGGGAAACA	GATTCCACAG	TTTCAAGTCA	CAATCAGATA
1321	TGCAAAGGCA	ATATCTATGC	CATGGAGATC			
1381		ACGTGGCCCT				
1441		CCAACACCAA				
1501	CTGGTGGACG	CCTACATCAA	CATCGGGGCG	CGCTGGTCGC	TGGACCCCAT	GGACAACGTG
1561	AATCCCTTCA	ACCACCACCG	CAACGCGGGC	CTGCGCTACC	GCTCCATGCT	CCTGGGCAAC
1621	GGGCGCTACG	TGCCCTTCCA	CATCCAGGTG	CCCCAGAAAT	TTTTTGCCAT	CAAGAGCCTC
1681	CTGCTCCTGC	CCGGGTCCTA	CACCTACGAG		GCAAGGACGT	
1741	CTGCAGAGCT	CCCTCGGCAA	CGACCTGCGC			
1801	ATCAACCTCT	ACGCCACCTT	CTTCCCCATG	GCGCACAACA	CGGCCTCCAC	GCTCGAGGCC
1861		ACGACACCAA				
1921	CTCTACCCCA	TCCCGGCCAA	CGCCACCAAC	GTGCCCATCT	CCATCCCCTC	GCGCAACTGG
1981	GCCGCCTTCC	GCGGCTGGTC	CTTCACGCGC	CTCAAGACCC	GCGAGACGCC	CTCGCTGGGC
2041	TCCGGGTTCG	ACCCCTACTT	CGTCTACTCG	GGCTCCATCC	CCTACCTCGA	CGGCACCTTC
2101		ACACCTTCAA				
2161	GGCAACGACC	GCCTCCTGAC	GCCCAACGAG	TTCGAAATCA	AGCGCACCGT	CGACGGAGAG
2221	GGATACAACG	TGGCCCAGTG	CAACATGACC	AAGGACTGGT	TCCTGGTCCA	GATGCTGGCC
2281	CACTACAACA	TCGGCTACCA	GGGCTTCTAC	GTGCCCGAGG	GCTACAAGGA	CCGCATGTAC
2341		GCAACTTCCA				
2401	GACTACCAGG	CCGTCACCCT	GGCCTACCAG	CACAACAACT	CGGGCTTCGT	CGGCTACCTC
2461		TGCGCCAGGG				
2521		TCGCCAGCGT				
2581		CCAGCAACTT				
2641		ACTCCGCCCA				
2701		TCTATGTTGT				
2761		TCGAGGCCGT				
2821	TAA (SEQ I	ID NO: 18)				

			10/101			
1	ATGGCCACCC	CATCGATGCT	GCCCCAGTGG	GCGTACATGC	ACATCGCCGG	ACAGGACGCT
61	TCGGAGTACC	TGAGTCCGGG	TCTGGTGCAG	TTCGCCCGCG	CCACAGACAC	CTACTTCAGT
121	CTGGGGAACA	AGTTTAGGAA	CCCCACGGTG	GCGCCCACGC	ACGATGTGAC	CACCGACCGC
181	AGCCAGCGGC	TGACGCTGCG	CTTCGTGCCC	GTGGACCGCG	AGGACAACAC	CTACTCGTAC
241	AAAGTGCGCT	ACACGCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CAGCACCTAC
301	TTTGACATCC	GCGGCGTGCT	GGACCGGGGC	CCTAGCTTCA	AACCTTACTC	CGGCACCGCT
361	TACAACAGCC	TGGCCCCAA	GGGAGCACCC	AATTCCAGCC	AGTGGGAGCA	AAAAAAGACT
421	GGCAAAAATG	CCAATGGAGA	TACGGAGAAT	GTCACTTATG	GTGTAGCTGC	CATGGGAGGA
481	ATTGACATCG	ATAAAAATGG	CCTTCAAATT	GGAACCGATG	ACACCAAAGA	TGGCGATAAT
541	GAAATTTATG	CAGACAAAAC	ATATCAGCCT	GAGCCGCAAA	TAGGAGAGGA	AAACTGGCAA
601	GAAACATATT	CCTACTATGG	AGGTAGAGCT	CTTAAAAAAG	ATACCAAAAT	GAAGCCATGC
661	TATGGCTCAT	TTGCTAGACC	TACCAATGTG	AAAGGAGGAC	AGGCAAAAAT	AAAAACAGAT
721	GGAGATGTTA	AGTCATTTGA	CATAGACCTA	GCCTTCTTTG	ATATTCCAAA	TTCTGGCGCG
781	GGAAATGGCA	CAAATGTTAA	CGATGATCCA	GATATGGTTA	TGTATACAGA	AAATGTAAAT
841	CTGGAAACCC	CAGATACTCA	TATTGTGTAC	AAACCAGGAA	CTTCAGATGA	CAGCTCCGAG
901	GTCAACTTGT	GTCAGCAATC	CATGCCTAAC	AGACCCAATT	ATATTGGCTT	CAGAGACAAT
961	TTTATTGGGC	TTATGTACTA	CAACAGCACT	GGCAATATGG	GTGTGCTGGC	TGGTCAGGCC
1021	TCTCAACTGA	ATGCCGTGGT	GGACTTGCAA	GACAGAAACA	CAGAGCTGTC	CTACCAGCTC
1081	TTGCTTGACT	CTCTGGGTGA	CAGAACCAGG	TATTTCAGTA	TGTGGAATCA	GGCGGTGGAC
1141	AGTTATGATC	CTGATGTGCG	CATTATTGAA	AACCATGGTG	TGGAGGATGA	ATTGCCAAAC
1201	TATTGCTTCC	CCTTGGATGG	AGCAGGCACC	AATTCGGTTT	ACCAAGGTGT	TAAACCAAAA
1261 1321	ACTGACAATG	GCAACGATCA	GTGGGAAACA	GATTCCACAG	TTTCAAGTCA	CAATCAGATA
	TGCAAAGGCA	ATATCTATGC	CATGGAGATC	AATCTCCAGG	CCAACCTGTG	GAGAAGTTTC
1381	CTCTACTCGA	ACGTGGCCCT	GTACCTGCCC	GATTCTTACA	AGTACACGCC	GGCCAACATC
1441	ACCCTGCCCA	CCAACACCAA	CACCTACGAT	TACATGAACG	GGAGAGTGGT	GCCTCCCTCG
1501	CTGGTGGATG	CCTACATCAA	CATCGGAGCG	CGCTGGTCGC	TGGACCCCAT	GGACAACGTC
1561	AATCCCTTCA	ACCACCACCG	CAATGCGGGG	CTGCGCTACC	GCTCCATGCT	CCTGGGCAAC
1621	GGGCGCTACG	TGCCCTTCCA	CATCCAGGTG	CCCCAGAAAT	TTTTCGCCAT	CAAGAGCCTT
1681	CIGCICCIGC	CCGGGTCCTA	CACCTACGAG	TGGAACTTCC	GCAAGGACGT	CAACATGATC
1801	CTGCAGAGCT	CCCTCGGCAA	CGACCTGCGC	ACGGACGGGG	CCTCCATCTC	CTTCACCAGC :
1861	ATCAACCTCT	ACGCCACCTT	CTTCCCCATG	GCGCACAACA	CGGCCTCCAC	GCTCGAGGCC
1921	ATGUTGUGUA	ACGACACCAA	CGACCAGTCC	TTCAACGACT	ACCTCTCGGC	GGCCAACATG
1921	CTCTACCCCA	TCCCGGCCAA	CGCCACCAAC	GTGCCCATCT	CCATCCCCTC	GCGCAACTGG
2041	GCCGCCTTCC	GCGGCTGGTC	CTTCACGCGC	CTCAAGACCA	AGGAGACGCC	CTCGCTGGGC
2101	TCCGGGTTCG	ACCCATACTT	CGTCTACTCG	GGCTCCATCC	CCTACCTCGA	CGGCACCTTC
2161	CCCAACC	ACACCTTCAA	GAAGGTCTCC	ATCACCTTCG	ATTCCTCCGT	CAGCTGGCCC
2221	GGCAACGACC	GGCTCCTGAC	GCCCAACGAG	'l'1'CGAAATCA	AGCGCACCGT	CGACGGCGAG
2221	CACMACAACG	TGGCCCAGTG	CAACATGACC	AAGGACTGGT	TCCTGGTCCA	GATGCTGGCC
2341	TCCTTACAACA	CONTROCA	GGGCTTCTAC	GTGCCCGAGG	GCTACAAGGA	CCGCATGTAC
2401	CACTACCACC	CCCMCA CCCM	GCCCATGAGC	CGCCAGGTGG	TGGACGAGGT	CAACTACAAG
2461	CCCCCCACCA	TCCCCCCT.	GGCCTACCAG	CACAACAACT	CGGGCTTCGT	CGGCTACCTC
2521	GCGCCCACCA	TGCGCCAGGG	CCAGCCCTAC	CCCGCCAACT	ACCCGTACCC	GCTCATCGGC
2581	AAGAGCGCCG	TCACCAGCGT	CACCCAGAAA	AAGTTCCTCT	GCGACAGGGT	CATGTGGCGC
2641	ATCCCCTTCT	ACTICAGCAACTIT	CATGTCCATG	GGCGCGCTCA	CCGACCTCGG	GCAGAACATG
2701	CTCTATGCCA	ACTUUGUUUA	CGCGCTAGAC	ATGAATTTCG	AAGTCGACCC	CATGGATGAG
2761	TCCACCCTTC	TCTATGTTGT	CTTCGAAGTC	TTCGACGTCG	TCCGAGTGCA	CCAGCCCCAC
2821	CGCGGCGTCA	TCGAGGCCGT	CTACCTGCGC	ACCCCCTTCT	CGGCCGGTAA	CGCCACCACC
404L	TAA (SEQ ID	NO: TA)				

1	ATGGCCACCC	CATCGATGCT	GCCCCAGTGG	GCGTACATGC	ACATCGCCGG	ACAGGACGC T
61	TCGGAGTACC	TGAGTCCGGG	TCTGGTGCAG	TTCGCCCGCG	CCACAGACAC	CTACTTCACT
121	CTGGGGAACA	AGTTTAGGAA	CCCCACGGTG	GCACCCACGC	ACGATGTGAC	CACCGACCG-C
181	AGCCAGCGGC	TGACGCTGCG	CTTCGTGCCC	GTGGACCGCG	AGGACAACAC	CTACTCGTA_C
241	AAAGTGCGCT	ACACGCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CAGCACCTA_C
301	TTTGACATCC	GCGGCGTGCT	GGATCGGGGC	CCTAGCTTCA	AACCCTACTC	CGGCACCGC T
361	TACAACAGCC	TGGCTCCCAA	GGGAGCGCCC	AACACTTGCC	AGTGGACATA	TACTGATAA_C
421	CAAACTGAGA	AAACAGCCAC	ATATGGAAAT	GCACCCGTAG	AGGGCATTAA	CATTACAAA_A
481	GATGGCATTC	AACTTGGAAC	TGACAGCGAT	GGTCAGGCAA	TCTATGCAGA	CGAAACTTA_T
541	CAGCCCGAAC	CTCAGGTGGG	AGATCCTGAA	TGGCATGATA	CCACAGGTAC	AGAAGAAAA A
601	TATGGAGGCA	GAGCGCTTAA	ACCTGCCACC	GACATGAAAC	CTTGCTATGG	CTCTTTTGC C
661	AAGCCAACTA	ATGTTAAGGG	AGGTCAGGCC	AAAAGCAGAA	CAAAAACTGA	TGGAACAAC T
721	GAGCCTGATA	TTGACATGGC	CTTTTTTGAT	GGCAGAAATG	CAACAACAGC	TGGTTTGAC T
781	CCAGAAATTG	TTTTGTATAC	TGAAAATGTG	GATCTGGAAA	CTCCAGATAC	CCATATTGT_A
841	TACAAGGCAG	GCACAGATGA	CAGCAGCTCT	TCTATCAATT	TGGGTCAGCA	GTCCATGCC.←C
901	AACAGACCCA	ACTACATTGG	CTTCAGAGAC	AACTTTATCG	GGCTCATGTA	CTACAACAG<
961	ACTGGCAATA	TGGGTGTACT	GGCTGGACAG	GCCTCCCAGC	TGAATGCTGT	GGTGGACTT ←
1021	CAGGACAGAA	ACACTGAACT	GTCCTACCAG	CTCTTGCTTG	ACTCTCTGGG	TGACAGAAC <
1081	AGGTATTTCA	GTATGTGGAA	TCAGGCGGTG	GACAGTTATG	ACCCCGATGT	GCGCATTAT*T
1141	GAAAATCACG	GTGTGGAGGA	TGAACTCCCC	AACTATTGCT	TCCCCCTGAA	TGCTGTGGGGT
1201	AGAACAAATA	GTTATCAGGG	AATTAAACCC	AATGGAGGCG	ATCCAGCTAC	ATGGGCCAA
1261	GATGAAAGCG	TCAATGATTC	TAATGAATTG	GGCAAGGGCA	ATCCTTTCGC	CATGGAGATC
1321	AACATCCAGG	CCAACCTGTG	GCGGAACTTC	CTCTACGCGA	ACGTGGCGCT	GTACCTGCCC
1381	GACTCCTACA	AGTACACGCC	GGCCAACATC	ACGCTGCCCG	CCAACACCAA	CACCTACGAT
1441	TACATGAACG	GCCGCGTGGT	GGCGCCCTCG	CTGGTGGACG	CCTACATCAA	CATCGGGGCC
1501	CGCTGGTCGC	TGGACCCCAT	GGACAACGTC	AACCCCTTCA	ACCACCACCG	CAACGCGGGC
1561	CTGCGCTACC	GCTCCATGCT	-CCTGGGCAAC	GGGCGCTACG	TGCCCTTCCA	CATCCAGGTC
1621	CCCCAAAAGT	TTTTCGCCAT	CAAGAGCCTC	CTGCTCCTGC	CCGGGTCCTA	CACCTACGAC
1681	TGGAACTTCC	GCAAGGACGT	CAACATGATC	CTGCAGAGCT	${\tt CCCTCGGCAA}$	CGACCTGCGC
1741	ACGGACGGGG	CCTCCATCGC	CTTCACCAGC	ATCAACCTCT	ACGCCACCTT	CTTCCCCATG
1801	GCGCACAACA	CCGCCTCCAC	GCTCGAGGCC	ATGCTGCGCA	ACGACACCAA	CGACCAGTC
1861	TTCAACGACT	ACCTCTCGGC	GGCCAACATG	CTCTACCCCA	TCCCGGCCAA	CGCCACCAAC
1921	GTGCCCATCT	CCATCCCCTC	GCGCAACTGG	GCCGCCTTCC	GCGGATGGTC	CTTCACGCGC
1981	CTCAAGACCC	GCGAGACGCC	CTCGCTAGGC	TCCGGGTTCG	ACCCCTACTT	CGTCTACTCG
2041	GGCTCCATCC	CCTACCTCGA	CGGCACCTTC	TACCTCAACC	ACACCTTCAA	GAAGGTCTCC
2101	ATCACCTTCG	ACTCCTCCGT	CAGCTGGCCC	GGCAACGACC	GCCTCCTGAC	GCCCAACGAG
2161	TTCGAAATCA	AGCGCACCGT	CGACGGAGAG	GGATACAACG	TGGCCCAGTG	CAACATGACC
2221	AAGGACTGGT	TCCTGGTCCA	GATGCTGGCC	CACTACAACA	TCGGCTACCA	GGGCTTCTAC
2281	GTGCCCGAGG	GCTACAAGGA	CCGCATGTAC	TCCTTCTTCC	GCAACTTCCA	GCCCATGAGC
2341	CGCCAGGTCG	TGGACGAGGT	CAACTACAAG	GACTACCAGG	CCGTCACCCT	GGCCTACCAG
2401	CACAACAACT	CGGGCTTCGT	CGGCTACCTC	GCGCCCACCA	TGCGCCAGGG	CCAGCCCTAC
2461	CCCGCCAACT	ACCCCTACCC	GCTCATCGGC	AAGAGCGCCG	TCGCCAGCGT	CACCCAGAAA
2521	AAGTTCCTCT	GCGACCGGGT	CATGTGGCGC	ATCCCCTTCT	CCAGCAACTT	CATGTCCATG
2581	AGCGCGCTCA	CCGACCTCGG	CCAGAACATG	CTCTACGCCA	ACTCCGCCCA	CGCGCTAGAC
2641	ATGAATTTCG	AAGTCGACCC	CATGGATGAG	TCCACCCTTC	TCTATGTTGT	CTTCGAAGTC
2701	A CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	TCCGAGTGCA	CCAGCCCCAC	CGCGGCGTCA	TCGAGGCCGT	CTACCTGCGC
2761	ACGCCCTTCT	CGGCCGGCAA	CGCCACCACC	TAA (SEQ I	D NO: 20)	

			,			
1				GCGTACATGC		
61				TTCGCCCGCG		
121				GCGCCCACGC		
181				GTGGACCGCG		
241				AACCGCGTGC		
301				CCTAGCTTCA		
361				AACACTTGCC		
421				GCGCCTGTGC		
481				GATCAGCCCA		
541				TGGCATGACA		
601				AAAATGAAGC		
661				AATGTGAAAA		CGGTACCAAA
721				AATCGAAGTG		TGGCCTGGCC
781				GATCTGGAAA		
841				TCTATCAATT		
901				AACTTTATCG		
961				GCCTCCCAGC		
1021				CTCTTGCTTG		
1081				GACAGTTATG		
1141				AATTATTGCT		
1201				AATGGTGCTG		
1261				GGCAAGGGCA		
1321				CTCTACGCGA		
1381				ACGCTGCCCA		
1441				CTGGTGGACG		
1501 1561	CGCTGGTCGC	TGGACCCCAT.	GGACAACGTC	AACCCCTTCA	ACCACCACCG	CAACGCGGGC
1621	CCCCAAAAGT			GGGCGCTACG		
1681				CTGCTCCTGC CTGCAGAGCT		
1741				ATCAACCTCT		
1801	CCCCACAACA	CCCCCTCCATCGC	CTICACCAGC	ATGCTGCGCA	ACGCCACCTT	CTTCCCCATG
1861				CTCTACCCCA		
1921				GCCGCCTTCC		
1981				TCCGGGTTCG		
2041				TACCTCAACC		
2101				GGCAACGACC		
2161	TTCGAAATCA	AGCGCACCGT	CGACGGAGAG	GGGTACAACG	TCCCCCACTC	CAACAACGAG
2221				CACTACAACA		
2281				TCCTTCTTCC		
2341				GACTACCAGG		
2401				GCGCCCACCA		
2461				AAGAGCGCCG		
2521				ATCCCCTTCT		
2581				CTCTACGCCA		
2641				TCCACCCTTC		
2701				CGCGGCGTCA		
2761		CGGCCGGCAA			D NO: 21)	
				• -	•	

1				TCGTACATGC		
61				TTCGCTCGCG		
121				GCGCCCACGC		
181	TCCCAGCGCC	TGACGCTGCG	GTTCATCCCC	GTGGACCGCG	AGGACACCGC	GTACTCGTAC
241				AACCGCGTGC		
301	TTTGACATCC	GCGGCGTGCT	GGACCGCGGC	CCCACCTTCA	AGCCCTACTC	CGGCACCGCY
361	TACAACTCCC	TGGCCCCCAA	GGGCGCTCCC	AACTCCTGCG	AGTGGGAGCA	AGAGGAAACT
421	CAGGCAGTTG	AAGAAGCAGC	AGAAGAGGAG	GAAGAAGATG	CTGACGGTCA	AGCTGAGGAA
481	GAGCAAGCAG	CTACCAAAAA	GACTCATGTA	TATGCTCAGG	CTCCCCTTTC	CGGCGAAAAA
541	ATTAGCAAAG	ACGGTCTGCA	GATAGGAACG	GACGCTACAG	CAACCGAACA	AAAACCTATT
601	TATGCAGACC	CTACATTCCA	GCCCGAACCC	CAAATCGGGG	AGTCCCAGTG	GAATGAGGCA
661	GATGCTACAG	TCGCTGGTGG	TAGAGTGCTC	AAGAAAACCA	CTCCCATGAA	ACCATGCTAT
721	GGTTCCTATG	CAAGACCCAC	GAATGCTAAT	GGAGGTCAGG	GTGTACTAGC	GGCAAATGCC
781	CAAGGACAGC	TAGAATCTCA	GGTTGAAATG	CAATTCTTTT	CAACTTCTGA	AAACGCCCGT
841	AACGAGGCTA	ACAACATTCA	GCCCAAATTG	GTGCTGTATA	GCGAGGATGT	GCACATGGAG
901				ACAAAAAGCG		
961				AATTACATTG		
1021				ATGGGAGTGC		
1081				AACACAGAAC		
1141				TCCATGTGGA		
1201	GACCCAGATG	TCAGAATTAT	TGAAAATCAT	GGAACTGAAG	ACGAGCTCCC	CAACTATTGT
1261				ACTTACCAGG		
1321	AATAATGGGG	GTCAGGTGAC	TTGGACAAAA	GATGAAACTT	TTGCAGAGCG	CAATGAGATA
1381	GGGGTGGGAA	ACAATTTCGC	CATGGAGATC	AACCTCAATG	CCAACCTGTG	GAGGAACTTC
1441				GACAAGCTTA		
1501				TACATGAACA		
1561	CTGGTGGACT					
1621				CTGCGCTACC		
1681				CCCCAGAAGT		
1741				TGGAACTTCA		
1801	CTCCAGAGCT	CTCTGGGCAA	CGATCTCAGG	GTGGACGGGG	CCAGCATCAA	GTTCGAGAGC
1861				GCCCACAACA		
1921				TTCAATGACT		
1981				GTCCCCATCT		
2041	GCGGCCTTCC	GCGGCTGGGC	CTTCACCCGC	CTCAAGACCA	AGGAGACCCC	CTCCCTGGGC
2101				GGATCCATTC		
2161	TACCTCAACC	ACACTTTCAA	GAAGGTCTCG	GTCACCTTCG	ACTCCTCGGT	CAGCTGGCCG
2221	GGCAACGACC	GCCTGCTCAC	CCCCAACGAG	TTCGAGATCA	AGCGCTCGGT	CGACGGGGAG
2281				AAGGACTGGT		
2341				ATCCCAGAGA		
2401	TCCTTCTTCA	GGAACTTCCA	GCCCATGAGC	CGGCAGGTGG	TGGACCAGAC	CAAGTACAAG
2461				CACAACAACT		
2521				CCCGCCAACT		
2581				AAGTTCCTCT		
2641	ATCCCCTTCT	CCAGCAACTT	CATGTCCATG	GGTGCGCTCA	CGGACCTGGG	CCAGAACCTG
2701				ATGACCTTCG		
2761				TTTGACGTGG		
2821				ACGCCCTTCT		
2881		D NO: 22)				

1	ATGGCCACCC	CATCGATGCT	GCCCCAGTGG	GCGTACATGC	ACATCGCCGG	ACAGGACGCT
61		TGAGTCCGGG				
121		AGTTTAGGAA				
181		TGACGCTGCG				
241		ACACGCTGGC				
301	TTTGACATCC	GCGGCGTGCT	GGACCGGGGC	CCTAGCTTCA	AACCCTACTC	CGGCACCGCC
361	TACAACAGCC	TGGCCCCCAA	GGGAGCTCCC	AATTCCAGTC	AGTGGGAGCA	GACGGAGAAC
421	GGGGGCGGAC	AGGCTACGAC	TAAAACACAC	ACCTATGGAG	TTGCCCCAAT	GGGTGGAACT
481	AATATTACAG	TCGACGGACT	ACAAATTGGA	ACTGACGCTA	CAGCTGATAC	GCAAAAACCA
541	ATTTATGCTG	ATAAAACATT	CCAACCTGAG	CCTCAGATAG	CACACCAAAA	CTGCCAAGAA
601	ACTGAAAGCT	TTTATGGCGG	TAGGGCTCTT	AAGAAAGACA	CAAACATGAA	CCCTTCTTAT
661	GGCTCATTTG	CCAGACCTAC	CAATGAAAAG	GGAGGTCAAG	CTABACTTAA	ACTTCCACCT
721	GATGGGCTGC	CGACCAAAGA	ATTTCACATA	GACCTACCAT	TCTTTCATAC	TCCTCCTCCC
781	ACTGTGACCG	GAGGTACAGA	GGAGTATAAA	CCACATATTC	TOTTTOATAC	CCANANCACC
841	TATCTGGAAA	CTCCAGACAC	ACATGTGGTG	TATABACCAC	CCAACCATAA	CACAACACACG
901	AAAATTAACC	TGGTCCAGCA	GTCTATCCCC	AACAGGCCCCA	ACTACATTA	CACAAGIICI
961	AACTTTATTG	GGCTCATGTA	TTACAACACC	ACTCCCAATA	TCCCTCTCCT	GIIIAGGGAC
1021	GCTTCTCAGT	TGAATGCTGT	CCTTCACTTC	CAACACACAA	ACACTCA ACT	CUCUUNACCAC
1081	CTCTTCCTTC	ACTCTTTGGG	TCACAGAACC	ACCUP TOTOL	CUNTCUCCAN	GICIIACCAG
1141	GACAGTTATG	ATCCTGATGT	CCCCATTATT	CAAAACCATC	CTCTCCAACA	TCAGGCGGIG
1201	AACTATTCCT	TCCCCCTGGA	TCCCTCTCCC	ACTA ACCCCC	CTTTACCAACA	TGAACTICCC
1261	AAAAATGGTC	AAGATGGTGA	TCTTCACACC	CAATCCCCAAA	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	TGTGAAAGTA
1321	CGAAATCAAT	TATGCAAGGG	CAACACTORGE	CCCAMCCACA	TAGATGATAC	CCCCAACCT
1381	TGGAGAAGTT	TTCTCTACTC	CAACATITI	CTCTACCTCC	CCCAMMCMMA	CAACCAACCAG
1441	CCGGCCAACA	TCACCCTGCC	CACCAACACC	AACACCERC	CCGMIICIIA	CAAGIACACG
1501	CTCCCTCCCT	CGCTGGTGGA	CCCCTACACC	AACACCIACG	CCCCCCCCCCC	CGGGAGAGTG
	ATCCACAACC	TCAATCCCTT	CAACCACCAT	CCCAACCCCC	CCCCCCCCC	CCCCTCCACCCC
.1621	CTCCTGGGCA	ACGGGCGCTA	CAACCACCAI	CACAMCCACC	mcccccv cv v	CCGCTCCATG
1681	ATTAACACCC	TCCTGCTCCT	CCCCCCCTCC	TACATCCAGG	A COUCCA A COOR	CCCCAACCAC
1741	CTCAACATCA	TCCTGCAGAG	CTCCGGGICC	AACCACCIACG	AGTGGAACTT	CCGCAAGGAC
1801	TCCTTCACCA	GCATCAACCT	CICCCICGGC	MACGACCIGC	TCCCCCA CA A	GGCCTCCATC
1861	ACCCTCGACG	CCATGCTGCG	CIACGCCACC	AACCACCACA	COMMON NOON	CACCGCCTCC
1921		TGCTCTACCC				
1981	TCCCCCA ACT	GGGCCGCCTT	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	MACGCCACCA	ACGTGCCCAT	CTCCATCCCC
2041	CCCTCCCTCC	GCTCCGGGTT	CCGCGGCTGG	TCCTTCACGC	GCCTCAAGAC	CAAGGAGACG
2101	CCCTCGCTGG	TCTACCTCAA	CGACCCCTAC	TICGICIACT	CGGGCTCCAT	CCCCTACCTC
2161	CTCACCTCCC	CCCCCAACCA	CCACACCTTC	AAGAAGGTCT	CCATCACCTT	CGACTCCTCC
2221		CCGGCAACGA				
2221		AGGGCTACAA				
2341		CCCACTACAA				
		ACTCCTTCTT	CCGCAACTTC	CAGCCCATGA	GCCGCCAGGT	CGTGGACGAG
2401	GTCAACTACA	AGGACTACCA	GGCCGTCACC	CTGGCCTACC	AGCACAACAA	CTCGGGCTTC
2461	GTCGGCTACC	TCGCGCCCAC	CATGCGCCAG	GGCCAGCCCT	ACCCCGCCAA	CTACCCCTAC
2521		GCAAGAGCGC				
2581		GCATCCCCTT		TTCATGTCCA	TGGGCGCGCT	CACCGACCTC
2641	GGCCAGAACA	TGCTCTACGC	CAACTCCGCC	CACGCGCTAG	ACATGAATTT	CGAAGTCGAC
2701	CCCATGGATG	AGTCCACCCT	TCTCTATGTT	GTCTTCGAAG	TCTTCGACGT	CGTCCGAGTG
2761	CACCAGCCCC	ACCGCGGCGT	CATCGAGGCC	GTCTACCTGC	GCACCCCTT	CTCGGCCGGT
2821	AACGCCACCA	CCTAA (SEQ	ID NO: 23)			

1	ATGGCGACCC	CATCGATGAT	GCCGCAGTGG	TCGTACATGC	: ACATCTCGGG	CCAGGACGCC
61	TCNGAGTACC	TGAGCCCCGG	GCTGGTGCAG	TTCGCCCGCG	CCACCGAGAG	CTACTTCAGC
121	CTGAGTAACA	AGTTTAGGAA	CCCCACGGTG	GCGCCCACGC	ACGATGTGAC	CACCGACCGG
181	TCTCAGCGCC	TGACGCTGCG	GTTCATTCCC	GTGGACCGCG	AGGACACCGC	GTACTCGTAC
241	AAGGCGCGGT	TCACCCTGGC	CGTGGGCGAC	AACCGCGTGC	TGGACATGGC	CTCCACCTAC
301	TTTGACATCC	GCGGGGTGCT	GGACCGGGGT	CCCACTTTCA	AGCCCTACTC	TGGCACCGCC
361	TACAACTCCC	TGGCCCCCAA	GGGCGCTCCC	AACTCCTGCG	AGTGGGAGCA	AGAGGAAACT
421	CAGGCAGTTG	AAGAAGCAGC	AGAAGAGGAA	GAAGAAGATG	CTGACGGTCA	AGCTGAGGAA
481	GAGCAAGCAG	CTACCAAAAA	GACTCATGTA	TATGCTCAGG	CTCCCCTTTC	TGGCGAAAAA
541	ATTAGTAAAG	ATGGTCTGCA	AATAGGAACG	GACGCTACAG	CTACAGAACA	AAAACCTATT
601	TATGCAGACC	CTACATTCCA	GCCCGAACCC	CAAATCGGGG	AGTCACAGTG	GAATGAGGCA
661	GATGCTACAG	TCGCCGGCGG	TAGAGTGCTA	AAGAAATCTA	CTCCCATGAA	ACCATGCTAT
721	GGTTCCTATG	CAAGACCCAC	AAATGCTAAT	GGAGGTCAGG	GTGTACTAAC	GGCAAATGCC
781	CAGGGACAGC	TAGAATCTCA	GGTTGAAATG	CAATTCTTT	CAACTTCTGA	AAACGCCCCT
841	AACGAGACTA	ACAACATTCA	GCCCAAATTG	GTGCTGTATA	GTGAGGATGT	GCACATGGAG
901	ACCCCGGATA	CGCACCTTTC	TTACAAGCCC	GCAAAAAGCG	ATGACAATTC	AAAAATCATG
961	CTGGGTCAGC	AGTCCATGCC	CAACAGACCT	AATTACATCG	GCTTCAGAGA	$TA \Delta CTTT \Delta TC$
1021	GGCCTCATGT	ATTACAATAG	CACTGGCAAC	ATGGGAGTGC	TTGCAGGTCA	GGCCTCTCAG
1081	TTGAATGCAG	TGGTGGACTT	GCAAGACAGA	AACACAGAAC	TGTCCTACCA	CCTCTCAG
1141	GATTCCATGG	GTGACAGAAC	CAGATACTTT	TCCATGTGGA	ATCAGGCAGT	CCACACTTAT
1201	GACCCAGATG	TTAGAATTAT	TGAAAATCAT	GGAACTGAAG	ACGAGCTCCC	
1261	TTCCCTCTGG	GTGGCATAGG	GGTAACTGAC	ACTTACCAGG	CTGTTAAAAC	CAACIAIIGI
1321	AATAACGGGG	GCCAGGTGAC	TTGGACAAAA	GATGAAACTT	TTGCAGATCG	CAATCAAATA
1381	GGGGTGGGAA	ACAATTTCGC	TATGGAGATA	AACCTCAGTG	CCAACCTGTG	CAAIGAAAIA
1441	CTGTACTCCA	ACGTGGCGCT	GTACCTACCA	GACAAGCTTA	AGTACAACCC	CTCCAATCTIC
1501	GACATCTCTG	ACAACCCCAA	CACCTACGAT	TACATGAACA	AGCGAGTGGT	CICCAAIGIG
1561	CTGGTGGACT	GCTACATCAA	CCTGGGCGCG	CGCTGGTCGC	TGCACTACAT	GGACAACCTC
1621	AACCCCTTCA	ACCACCACCG	CAATGCGGGC	CTGCGCTACC	GCTCCATGCT	CCTCCCCAAC
1681	GGGCGCTACG	TGCCCTTCCA	CATCCAGGTG	CCCCAGAAGT	TCTTTGCCAT	CAACAACCTC
1741	CTCCTCCTGC	CGGGCTCCTA	CACCTACGAG	TGGAACTTCA	GCAACCATCT	CAAGAACCIC
1801	CTCCAGAGCT	CTCTGGGTAA	CGATCTCAGG	GTGGACGGG	CCAGCATCAA	CMMCCAIGGIC
1861	ATCTGCCTCT	ACGCCACCTT	CTTCCCCATG	GCCCACAACA	CGGCCTCCAC	CCTCCACAGAGC
1921	ATGCTCAGGA	ACGACACCAA	CGACCAGTCC	TTCAATCACT	ACCTCTCCGC	GCICGAGGCC
1981	CTCTACCCCA	TACCCGCCAA	CGCCACCAAC	CTCCCCATCT	CCATCCCCTC	CCCCAACATG
2041	GCGGCCTTCC	GCGGCTGGGC	CTTCACCCGC	CTCDDCACCD	AGGAGACCCC	CTCCCTCCCC
2101	TCGGGATTCG	ACCCCTACTA	CACCTACTCG	CCCTCCATTC	CCTACCTGGA	CICCCIGGGC
2161	TACCTCAACC	ACACTTTCAA	GAAGGTCTCG	CTCACCTTCC	ACTCCTCGGT	CACCACCTTC
2221	GGCAACGACC	GTCTGCTCAC	CCCCAACGAG	TTCGAGATCA	AGCGCTCGGT	CAGCIGGCCG
2281	GGCTACAACG	TGGCCCAGTG	CAACATGACC	AAGGACTCGT	TCCTGGTCCA	CATCCTCCCC
2341	AACTACAACA	TCGGCTACCA	GGGCTTCTAC	ATCCCAGAGA	CCTACAACCA	GWIGCIGGCC
2401	TCCTTCTTCA	GGAACTTCCA	GCCCATGAGC	CCCCACCTCC	TCCACCACAC	CAGGAIGIAC
2461	GACTACCAGG	AGGTGGGCAT	CATCCACCAC	CACAACAACT	CGGGCTTCGT	CCCCCTACCAG
2521	GCCCCACCA	TGCGCGAGGG	ACAGGCCTAC	CCCCCCAACT	TCCCCTATCC	CCTCATACCTC
2581	AAGACCGCGG	TCGACAGCAT	CACCCAGAAA	A A CTTCCTCTCT	TOCCOTATO	CCTCATAGGC
2641	ATCCCCTTCT	CCAGCAACTT	CATGTCCATG		CCCACCOCAC	CCICIGGGG
2701	CTCTACGCCA	ACTCCGCCCA	CGCCCTCGAC	ATCACCTCT	VCCACCTGGG	CAGAACTTG
2761	CCCACCCTTC	TCTATGTTCT	GTTCGAACTC	TIGACCIICG	WGGTCGWCCC	CATGGACGAG
2821	CGCGGCGTCA	TCGAGACCGT	GTACCTCCCT	7.1.020.0100	TCCGGGTCCA	CCCCAGCCGCAC
2881	TAA (SEQ ID	NO: 24)			AAJDUJJUU	CGCCACCACC
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_			0.,			
1				TCGTACATGC		
61				TTCGCCCGCG		
121				GCGCCCACGC		
181				GTGGACCGCG		
241				AACCGCGTGC		
301				CCCACCTTCA		
361				AACTCTTGTG		
421				GAAGATGAAG		
481				CAGGCTCCCC		
541				ACAGAAGCTC		
601				GGGGAGTCCC		
661				ACCACTCCCA		
721				CAGGGTGTGC		
781				TTTTCAAATA		
841				CTGTATAGCG		
901				AAAAGCGATG		
961	GGCCAACAGT	CCATGCCCAA	CAGGCCTAAT	TACATCGGCT	TCAGAGACAA	CTTTATCGGT
1021	CTCATGTACT	ACAACAGCAC	TGGCAACATG	GGAGTGCTTG	CAGGTCAGGC	CTCTCAGTTG
1081	AATGCAGTGG	TGGACTTGCA	AGACAGAAAC	ACAGAACTGT	CCTACCAGCT	CTTGCTTGAT
1141	TCCATGGGTG	ACAGAACCAG	ATATTTCTCC	ATGTGGAATC	AGGCAGTGGA	CAGTTATGAC
1201	CCGGATGTCA	GAATTATTGA	AAATCATGGA	ACCGAAGACG	AGCTCCCCAA	CTATTGTTTT
1261	CCTCTGGGTG	GCATAGGGGT	AACTGACACT	TACCAGGTCA	TTAAAACTAA	TGGCAATGGT
1321	CAAGCAGACC	CAACCTGGGA	AAAAGATACA	GAGTTTGCAG	ACCGCAATGA	AATAGGGGTG
1381	GGAAACAATT	TCGCCATGGA	GATCAACCTC	AATGCCAACC	TGTGGAGGAA	CTTCCTGTAC
1441	TCCAACGTGG	CCCTGTACCT	GCCAGACAAG	CTTAAGTACA	ACCCCTCCAA	CGTGGACATC
1501	TCTGACAACC	CCAACACCTA	CGATTACATG	AACAAGCGAG	TGGTGGCCCC	GGGGCTGGTG
1561	GACTGCTACA	TCAACCTGGG	CGCGCGCTGG	TCGCTGGACT	ACATGGACAA	CGTCAACCCC
1621	TTCAACCACC	ACCGCAACGC	GGGCCTGCGC	TACCGCTCCA	TGCTCCTGGG	CAACGGGCGC
1681	TACGTGCCCT	TCCACATCCA	GGTGCCCCAG	AAGTTCTTTG	CCATCAAGAA	CCTCCTCCTC
1741	CTGCCGGGCT	CCTACACCTA	CGAGTGGAAC	TTCAGGAAGG	ATGTCAACAT	GGTCCTCCAG
.1801	AGCTCTTTGG	GCAACGATCT	CAGGGTGGAC	GGGGCCAGCA	TCAAGTTCGA	GAGCATCTGC
1861	CTCTACGCCA	CCTTCTTCCC	CATGGCCCAC	AACACCGCCT	CCACGCTCGA	GGCCATGCTC
1921	AGGAACGACA	CCAACGACCA	GTCCTTCAAT	GACTACCTCT	CCGCCGCCAA	CATGCTCTAC
1981				ATCTCCATCC		
2041	TTCCGCGGCT	GGGCCTTCAC	CCGCCTCAAG	ACCAAGGAGA	CACCCTCCCT	GGGCTCGGGA
2101	TTCGACCCCT	ACTACACCTA	CTCGGGATCC	ATTCCCTACC	TGGACGGCAC	CTTCTACCTC
2161	AACCACACTT	TCAAGAAGGT	CTCGGTCACC	TTCGACTCCT	CGGTCAGCTG	GCCGGGCAAC
2221	GACCGCCTGC	TCACCCCCAA	CGAGTTCGAG	ATCAAGCGCT	CGGTCGACGG	GGAGGGCTAC
2281	AACGTGGCCC	AGTGCAACAT	GACCAAGGAC	TGGTTCCTGG	TCCAGATGCT	GGCCAACTAC
2341	AACATCGGCT	ACCAGGGCTT	CTACATCCCA	GAGAGCTACA	AGGACAGGAT	GTACTCCTTC
2401	TTCAGGAACT	TCCAGCCCAT	GAGCCGGCAG	GTGGTGGACC	AAACCAAGTA	CAAGGACTAC
2461	CAGGAGGTGG	GCATCATCCA	CCAGCACAAC	AACTCGGGCT	TCGTGGGCTA	CCTCGCCCCC
2521	ACCATGCGCG	AGGGACAGGC	CTACCCCGCC	AACTTCCCCT	ACCCGCTCAT	AGGCAAGACC
2581				CTCTGCGACC		
2641				CTCACGGACC		
2701				TTCGAGGTCG		
2761				GTGGTCCGGG		
2821				TTCTCGGCCG		
	ID NO: 25)					
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NRVLDMASTY C NRVLDMASTY C NRVLDMASTF O NRVLDMASTF NRVLDMASTF NRVLDMASTY NRVLDMASTF NRVLDMASTY NRVLDMASTF NRVLDMASTY NRVLDMASTY NRVLDMASTY NRVLDMASTY NRVLDMASTY NRVLDMAST KVRYTLAVGD KARFTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KARFTLAVGD KARFTLAVGD KARFTLAVGD KARFTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KARFTLAVGD KVRYTLAVGD KARFTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD KVRYTLAVGD VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDTAYSY SORLTLREVP VDREDNTYSY VDREDTAYSY SQRLTLRFIP VDREDTAYSY VDREDNTYSY VDREDNTYSY VDREDTAYSY VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDTAYSY VDREDTAYSY VDREDNTYSY SQRLTLRFVP VDREDNTYSY SQRLMLRFVP VDREDNTYSY VDREDTAYSY SQRLTLRFVP VDREDNTYSY SORLMLRFVP VDREDNTYSY SORLTLREVE VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDNTYSY VDREDNTYSY SORLTLRFIP SORLMLRFVP SQRLMLRFVP SQRLTLRFVP SORLTLRFIP SORLTLRFIP SQRLTLRFVP SORLTLRFVP SQRLTLRFVP SQRLTLRFVP SQRLTLRFIP SORLTLRFVP SQRLTLRFVP SORLTLRFIP SQRLMLRFVP SORLTLRFIP SORLTLREVP SORLTLRFVP SORLTLRFVP SORLTLREVP SQRLTLRFVP APTHDVTTDR LGNKFRNPTV APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR LGNKFRNPTV APTHDVTTDR APTHDVTTDR LGNKFRNPTV APTHDVTTDR APTHDVTTDR LGNKFRNPTV APTHDVTTDR LSNKFRNPTV APTHDVTTDR LGNKFRNPTV APTHDVTTDR APTHDVTTDR FARATESYFS LSNKFRNPTV APTHDVTTDR LGNKFRNPTV APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR LSNKFRNPTV APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR APTHDVTTDR FARATDTYFS LGNKFRNPTV APTHDVTTDR APTHDVTTDR SEYLSPGIVQ FARATDIYFS LGNKFRNPTV APTHDVTTDR LGNKFRNPTV LGNKFRNPTV LGNKFRNPTV LGNKFRNPTV LGNKFRNPTV LSNKFRNPTV LSNKFRNPTV LSNKFRNPTV LGNKFRNPTV LGNKFRNPTV LSNKFRNPTV LGNKFRNPTV LGNKFRNPTV LGNKFRNPTV FARATDTYFS LGNKFRNPTV LGNKFRNPTV LGNKFRNPTV FARATDTYFS FARATDTYFS FARATDTYFS FARATESYFS FARATESYFS FARATESYFS FARATESYFS FARATDTYFS FARATDTYFN FARATDTYFS FARATDTYFS FARATDTYFS FARATDTYFS FARATDTYFN FARATDTYFS FARATDTYFS FARATDTYFN FARATESYFS FARATDTYFN FARATDTYFS FARATESYFS FARATDTYFN FARATDTYFS FARATDTYFS SEYLSPGLVQ SEYL, SPGLVQ. SEYLSPGLVQ AYMHIAGODA AYMHIAGQDA SYMHISGODA AYMHIAGQDA AYMHIAGODA AYMHIAGQDA AYMHIAGQDA AYMHIAGQDA AYMHIAGQDA AYMHIAGQDA SYMHISGODA SYMHISGODA SYMHISGODA SYMHISGODA AYMHIAGQDA SYMHISGODA AYMHIAGQDA AYMHIAGQDA AYMHIAGQDA AYMHIAGODA AYMHIAGQDA AYMHIAGQDA SYMHISGODA AYMHIAGQDA AYMHIAGODA AYMHIAGQDA AYMHIAGODA AYMHIAGQDA MATPSMLPQW MATPSMLPOW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMMPQW MATPSMLPQW MATPSMMPQW MATPSMLPQW MATPSMMPQW MATPSMMPQW MATPSMMPQW MATPSMLPOW MATPSMLPQW MATPSMMPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMLPQW MATPSMMPQW MATPSMLPQW MATPSMLPOW MATPSMLPOW

CHAD8

CHAD9 CHAD10 CHAD11 CHAD16 CHAD19

CHAD20 CHAD22

CHAD17

CHAD24 CHAD26 CHAD30

CHAD4 CHAD5 CHAD6 CHAD7

**FIG. 31A** 

PAN5 PAN6 PAN7

CHAD38

CHAD37

CHAD44 CHAD82 CHAD63

CHAD31

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000	SGZ,PTGT,FVPS	GIOLGIDIDD	GLOIGTDATA	GLOIGTDDTK	GLOIGTDDTK	GLOIGPDESG	GLOIGTDDTK	GLEVGIOIIG	GIQLGTDSDG	GIOLGTDTDD	GLOIGTDATA	GT,OTGTDATA	GLOTGTDATA	GLOIGSDNTE	GIOIGIDAAS	GLPIGSEITD	GIOIGIDATS	GLOIGSDETK	GLOIGKEVTT	GLOIGSDNTE	GLPVGLEITE	GLOIGTDATS	GLOIGTDAAD	GLKIVTDASK	GLPIGIDSSS	GIOLGTDTDD	GLQIGTDVTA	GIQLGTDSDG
	EA. EITKE.	NITKD.	KISKD.	DIDKN.	DIDKN.	DITEE.	DIDKN.	D.DITKD.	NITKD.	SITKD.	KISKD.	NITVD	KISKD.	EITKD.	NITKE.	3.GDITKDK	NITKE.	NITKE.	NITKE.	EITKN.	AKITKD.	NITSD.	AIDKN.	CDITKE.	VVGKKIEAD.	SITKD.	NITKD.	ISITKD.
	YTFGNAPVKA E	YTYGNAPVOG I	HVYAQAPLSG E	VTYGVAAMGG I	VTYGVAAMGG I	YSFGNAPVRG L	VTYGVAAMGG I	YTFGNAPVKA E	ATYGNAPVEG I	ATYGNAPVOG I	HVYAQAPLSG E	HTYGVAPMGG T	HVYAOAPLSG E	HVYAQAPLSG E	HVFGQAPYSG O	YTEGNAPVKA E	HVFGQAPYSG Q	VTFGVAAMGG E	HTFGIASMKG E	HVYAQAPLSG E	YAFGNAPVQA E	HSFGLAAMKG D	HTFGMAAMKG E	HTYGVAAMGG L	HTFGVAAMPG V	YTYGNAPVQG I	HTYGVAPMGG E	YTYGNAPVQG I
	A EEGEEEKOAT	TATEKT	A EEEQAATKKT	NGDTEN	NGDTEN	GIDKI	NGDTEN	QKDVT	QTEKT	QTEKT		ATTKT	_		3 AQGEADQQKT		S AQGEADQQKT		DDPTNTT	PQDEAPVKKT	ITDVT	AATTTT	VINKT	GQAKT	DSKM	DTGTEKT	NGGTMET	TDTEKT
	3 DEEDEVA	•	E EE EDADGQA	•	•	•		2 E		• • • • • • • • • • • • • • • • • • • •	EE.EDADGQA		1	EDEDEE	DEESDE	3 AAVE	I DEEGDE		•	EDEDEE	3 EQE		•					
	V TTTDNNTENG	D GE	E TQAVEEAAEE	T GNNA	I GNNA	· · · · · · · · · · · · · · · · · · ·	r GKNA		N	N	E TQAVEEAAEE	M GGGO	_	E AQAALEDEEL	r ALDIDLNAED	V KKENGEADNE	T ALDIDLNAEE	L GNINNG	r TEGE	E AQAAVÉDEEL	A PVTDQDNE	r GTDGN	r N	NGO.				3 D
	P NTSQWLDKGV	P NTCQWTYKAD	P NSCEWEQ.EE	NSSQWEQKKT	PINSSOWEOKKT	P NTSQWITKDN	PINSSOMEOKKT	PINTCOWIAKGS	NICOMIYIDN	NICOMITION	NSCEWEQ.EE	NSSOWEQTEN	NSCEWEQ.EE	NSCEWEOLEE	POPENDEART	NISQWIAEGV	NPCEWDEAAT	NSSOWEOKKT	NPSQWLEQST	NSCEWEQLEE	NTCQWIAKGA	NPSQWEETTT	NPSQWEQTET	NSSOWEQNEN	NTSOWKDS	NTCOWTYKAD	NS	NTCQWTYKAG
	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP		YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNSLAPKGAP	YNALAPKAAP	YNSLAPKGAP	YNSLAPKGAP	•	YNSLAPKGAP		YNSLAPKGAP
	PSFKPYSGSA	PSFKPYSGTA	PTFKPYSGTA	PSFKPYSGTA	PSFKPYSGTA			PSFKPYSGTA			PTFKPYSGTA	PSFKPYSGTA	PTFKPYSGTA	PTFKPYSGTA	PTFKPYSGTA	PSFKPYSGTA	PTFKPYSGTA	PSFKPYSGTA	PSFKPYSGTA				PSFKPYSGTA	PSFKPYSGTA				PSFKPYSGTA
101	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG	FDIRGVLDRG
	CI	CN68	CHAD3	CHAD4	CHAD5	CHAD6	CHAD7	CHAD8	CHAD9	CHADIO	CHAD11	CHAD16	CHAD17	CHAD19	CHAD20	CHAD22	CHAD24	CHAD26	CHAD30	CHAD31	CHAD37	CHAD38	CHAD44	CHAD82	CHAD63	PANS	PAN6	PAN'

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FIG. 31B

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300	LRSQK.	NRSAAA	S TSENARN	) IPNSGAGNG	I PNSGAGNG	DRSQQA				NRSAAA	TSENARN	) TPGGTVTGG	TSENARN	NTTILNOR.		QASQKA	TTQAAAG		DRGATEA	NTTTLNOR.	LRSQRA		_		SKNIAAN	NRSAAAA	TPGGTVN	NRSAAAA
	EYDIDMNFFD	EYDIDMAFFD	ESQVEMQFFS	SFDIDLAFFD	SFDIDLAFFD	EPDIDMAFED	SFDIDLAFFD	ELDIDMDFYD	EPDIDMAFFD	EYDIDMAFFD	ESQVEMQFFS	EFDIDLAFFD	ESQVEMQFFS	QSKVELQFFS	ESQVEMQFFS	EYDIDMNFFD	ESQVEMQFFS	EYDIDLAFFD	EPDIDMVFYD	QSKVELQFFS	EADIDMDFYD	EYDVDMINFFD	EPDIDMNFFD	SFDIDLAFFD	NYDIDLAFFD	EYDIDMAFFD	EFDIDLAFFD	EYDIDMAFFD
	GKV	T $T$ K	GQL	VK	$\cdots \cdots VK$	G $T$ $T$	VK	TEGDKKTEVE	G $T$ T	GTK	GQL	GLPTK	GQL	G $VL$	KK	LQNQQV	KK	$V \dots V$	VDGGEETE	G $V$ L	EENGVKTVTE	TAV	GTT	ŏΛ·····	ASTTP	GTK	GVPTK	$\texttt{G}.\dots\texttt{TK}$
	GQAKVKKVEE	GQANVKTGTG	GOGVLTANAO	GQAKIKTDGD	GQAKIKTDGD	GQAKSRTKDD	GQAKIKTDGD		GQAKSRTKTD (	GOANVKTETG	GOGVLAANAQ	GQAKLKVGAD	GQGVLTANAQ (	GQGVLVADDK (	GOGILLEQDG	GQAKQKTTEQ 1	GQGILLEQDG 1	GQAKFKVQDG 1	GQAKTRKVAA 1	GQGVLVADDK (	GQAKTRKIEK 1	GQAKQKATEG	GQATPRTKAD (	GQAKVKTEEN	GQANIKDSET A	GQANVKTETG (	GQAKLKVGDD	GQANVKTETG
	SFAKPTNVKG	SFAKPTNKEG	SYARPTNANG	SFARPTNVKG	SFARPTNVKG	SFAKPTNAKG	SFARPTNVKG	SFARPTNKKG	SFAKPTNVKG	SFAKPTNKEG	SYARPTNANG	SFARPTNEKG	SYARPTNANG	SYARPTNANG	SYARPTNENG	SFAKPTNVKG	SYARPTNENG	SFARPTNEKG	SFARPTNKQG	SYARPTNSNG	SFARPTNKKG	SFAKPTNNKG	SFAKPTNVKG	SFARPTNVKG	SFARPTNKEG	SFAKPTNKEG	SYARPTNEKG	SFAKPTNKEG
	PETKMKPCYG	PDTKMKPCYG	KSTPMKPCYG	KDTKMKPCYG	KDTKMKPCYG	PATNMKPCYG	KDTKMKPCYG	PATNMRPCYG	PATDMKPCYG	PDTKMKPCYG	KTTPMKPCYG	KDTNMKPCYG	KSTPMKPCYG	KTTPMKPCYG	KTTLMKPCYG	PETKMKPCYG	KTTLMKPCYG	KDTKMKPCYG	SATNMKPCYG	KSTPMKPCYG	PATNMKPCYG	KDTSMKPCYG	KDTKMKPCYG	KDTKMKPCYG	DTTNMKPCYG	PDTKMKPCYG	KDTNMKPCYG	PDTKMKPCYG
	DEKYGGRALK	DEKYGGRALK	. TVAGGRVLK	.SYYGGRALK	.SYYGGRALK	EDKYGGRALK	.SYYGGRALK	TEQYGGRALK	EEKYGGRALK	DEKYGGRALK	. TVAGGRVLK	. SFYGGRALK	.TVAGGRVLK	.TVAGGRVLK	. SYGAGRVLK	TEKYGGRALK	. SHGAGRVLK	. SFYGGRALK	NEKFGGRTLK	.TVAGGRVLK	NEQYGGRALK	NEKFGGRVLK	.DFYGGRALK	FYGGRALK	EEKYGGRALK	DEKYGGRALK	.NFYGGRALK	DAEWHDITGT DEKYGGRALK
	EESWTDTDGT	DAEWHDITGT	ESQWNEADA.	EENWOETY	EENWQETY	DEEWHDTIGA	EENWQETY	DEQWHDTTGT	DPEWHDTTGT	DAEWHDITGT	ESQWNEADA.	EENWOETE	ESQWNEADA.	ESQWNEADA.	ESQWNETEI.	EETWIDIDGI	ESQWNETEI.	EENWQETF	EETWTDTDGT N	ESQWNEADA.	DEQWHDTTGT	EESWIDIDGI	EEDWIDKA	EENWODTKN.	SDSWVDTNGA	DAEWHDITGT	EENWQETE	DAEWHDITGT
	KLYQPEPQVG	KTYQPEPQVG	PTFQPEPQIG	KTYQPEPQIG	KTYQPEPQIG	KTYQPEPQLG	KTYQPEPQIG	KTYQPEPQVG	ETYQPEPQVG	KTYQPEPQVG	PTFQPEPQIG	KTFQPEPQIG	PTFQPEPQIG	PTFQPEPQIG	KTFQPEPQVG	KLYQPEPQVG	KTFQPEPQVG	KTYQPEPQIG	KTFQPEPQVG	PTFQPEPQIG	KLYQPEPQIG	KLYQPEPQIG	KTFQPEPQVG	KTYQPEPQIG	KTFQPEPQVG	KTYQPEPQVG	KTFQPEPQVG	ETYQPEPQVG
201		QPIYAD	T.EQKPIYAD	D.DDNEIYAD	D.DDNEIYAD	G.ESKKIFAD	D.GDNEIYAD	DE.ENPIYAD	QAIYAD	QPIYAD	T.EQKPIYAD	D.TEKPIYAD	T.EQKPIYAD	A.QSKPIYAD	Q.AQTPVYAD	G.EAKPIYAD	Q.AQTPLYAD	T.DNKEIYAD	T.GDKPIYAD	A.QSKPIYAD	D.EQKSIYAD	G.EEKPIYAD	QDKPIYAD	ED. DNEIYAD	G.TDTIIYAD	QPIYAD	N. QNKPIYAD	QAIYAD
	CI	CV68	CHAD3	CHAD4	CHAD5	CHAD6	CHAD7	CHAD8	CHAD9	CHAD10	CHAD11	CHAD16	CHAD17	CHAD19	CHAD20	CHAD22	CHAD24	CHAD26	CHAD30	CHAD31	CHAD37	CHAD38	CHAD44	CHAD82	CHAD63	PAN5	PAN6	PAN7

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	ISELAKGNPF	ANEIGKGNPF	RNEIGVGNNF	HNQICKGNIY	HNQICKGNIY	ANEIAKGNPF	HNQICKGNIY	ANEIGKGNNY	SNELGKGNPF	ANELGKGNPF	RNEIGVGNNF	RNQLCKGNIF	RNEIGVGNNF	RNEIGVGNNF	KNEIRVGNNF	TSEIGOGNLF	KNEIRVGNNF	INQICKGNIY	SNEIAIGNNL	RNEIGVGNNF	ANEIGKGNNY	ANEIGIGNNL	FNQIGKGDIY	INQICKGNIY	ANEIHSGNPF	ANELGKGNPF	RNQLCKGNIF	ANELGKGNPF
	TWKDL. DPNG	WIKDD. SVND	WTKDE. TFAD	WETDS. TVSS	WETDS. TVSS	WESDT. SVNN	WETDS. TVSS	WEKNT. EVNG	WAKDE.SVND	WTKDD. TVND	WTKDE. TFAE	WEKDD. TVAA	WTKDE. TFAD	WEKDT.EFAD	WEKDS.EFSD	WKEPDING	WEKDS.EFSD	WEQDT.GVSS	WEQDK.TYAT	WEKDT.EFAD	WKKNT.NING	WEKDT.SVST	WEKDE.TVYE		WDKDDTTVST			WTKDD.TVND
	ENT	DQTT	NNGGQVT	DNGNDQ	DNGNDQ	NNGT.ANATE	DNGNDQ	DNANDQ	DPAT	TTQU		QDGDVESE	NNGGQVT		QDAQ	GAD	QDAQ	GNAANGN	DEANK	GQENPT	NGN	TTTQ			TAATGINGTQ			TTON
	SYKGIETNGD	TYQGIKANGT	TYQAVKTNNG	VYQGVKPKT.	VYQGVKPKT.	TFQGIKVKTT	VYQGVKPKT.	TYQGIKPKTA	SYQGIKPNGG	TYQGIKANGA	TYQAVKTNNG	AYQGVKVKNG	TYQAVKTNNG	TYQVIKT.NG	TFTKVKPKAA	SYKLIEPNGE	TFTKVKPKAG	. VYQGVKAKDN	TYQGIKEKQG	TYQAIKTNGN	TYQGVEPDGN	TYQGIKTQNG	AYQGVKVKTT		TYQGVKVKTD			TYQGIKANGD
	PLDGVGPRTD	PLDAVG.RTD	PLGGIG.VID	PLDGAG. TNS	PLDGAG. TNS	PLNGVG.FTD	PLDGAG. TNS	PLDGVGPITE	' PLNAVG.RTN	' PLNAVG.RTD	PLGGIG.VTD	PLDGSG. TNA	PLGGIG.VTD	PLGGIG.VID	PLGGVI.NTE	' PLDGVGVPTT	PLGGII.NTE	PLDGAG. TWA	PLDGIG. PGK	PLGGIG.VTD	PLDGVGPITG	PIDAVG.ITR	PLDGVG. TNT		PLNGVG.FTD			' PLDAVG.RTD
	3 VEDELPNYCF	* VEDELPNYCF	TEDELPNYCF	3 VEDELPNYCF	3 VEDELPNYCF	3 VEDELPNYCF	3 VEDELPNYCF	S VEDELPNYCF	3 VEDELPNYCF	3 VEDELPNYCF	TEDELPNYCF	3 VEDELPNYCF	TEDELPNYCF	TEDELPNYCF	TEDELPNYCF	3 VEDELPNYCF	TEDELPNYCF	3 VEDELPNYCF	S IEDELPNYCF	TEDELPNYCF	HEDELPNYCF	S IEDELPNYCF	* VEDELPNYCF	>	3 VEDELPNYCF	>	>	S VEDELPNYCF
	PDVRVIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRITENHG	PDVRIIENHG	PDVRIIENHG	PDVRITENHG	PDVRIIENHG	PDVRIIENHG	PDVRITENHG	PDVRIIENHG	PDVRITENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG	PDVRIIENHG		PDVRIIENHG			PDVRIIENHG
	S MWNQAVDSYD	MWNQAVDSYD	MWNQAVDSYD	S MWNQAVDSYD	S MWINQAVDSYD	MWINQAVDSYD	MWNQAVDSYD	MWNQAVDSYD	S MWINQAVDSYD	S MWNQAVDSYD	S MWNQAVDSYD	MWNQAVDSYD	MWNQAVDSYD	S MWNQAVDSYD	S MWINQAVDSYD	S MWNQAVDSYD	3 MWNQAVDSYD	S MWNQAVDSYD	NWINQAVDSYD	MWNQAVDSYD	NWINQAVDSYD	S MWINQAVDSYD	S MWNQAVDSYD		MWNQAVDSYD			MWNQAVDSYD
401	SLGDRTRYFS	SLGDRTRYFS	SMGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SMGDRTRYFS	SLGDRTRYFS	SMGDRTRYFS	SMGDRTRYFS	SMGDRTRYFS	SLGDRTRYFS	SMGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SMGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS	SLGDRTRYFS
	CZ	CN68	CHAD3	CHAD4	CHAD5	CHAD6	CHAD7	CHAD8	CHAD9	CHAD10	CHAD11	CHAD16	CHAD17	CHAD19	CHAD20	CHAD22	CHAD24	CHAD26	CHAD30	CHAD31	CHAD37	CHAD38	CHAD44	CHAD82	CHAD63	PANS	PAN6	PAIN7

#### 87/101 HIQVPQKFFA HIQVPQKFFA HIQVPQKFFA HIQVPOKFFA HIQVPQKFFA HIOVPOKFFA HIQVPQKFFA HIOVPOKFFA HIOVPOKFFA HIQVPQKFFA HIQVPQKFFA HIQVPQKFFA HIQVPQKIFA LLGNGRYVPF LLGNGREVPF LLGNGRYVPF LLGNGRYVPF RNAGLRYRSM MDNVNPFNHH MONVNPFNHH MDNVNPFNHH MONVNPFNHH NIGARWSLDP NIGARWSLDP NIGARWSLDP NIGARWSLDP NIGARWSLDP NIGARWSLDL NIGARWSLDP NIGARWSLDP NIGARWSLDP NLGARWSLDY NIGARWSLDP NIGARWSLDP NLGARWSLDY NIGARWSLDL NIGARWSLDP NIGARWSLDP NIGARWSLDP NIGARWSLDP NIGARWSLDA NLGARWSLDY NLGARWSLDY NLGARWSLDY NLGARWSLDY NIGARWSLDA NIGARWSLDP NIGARWSLDP NIGARWSLDP NLGARWSLDY NTYDYMNGRV VPPSLVDTYV VPPSLVDAYI VAPSLVDAYI VAPSLVDAYI VAPSLVDSYI VAPGLVDCYI VPPSLVDAYI VPPSLVDAYI VSPSLVDSYL VAPSLVDAYI VAPGLVDCYI VPPSLVDAYI VAPGLVDCYI VAPGLVDCYI VAPGLVDCYI VPPSLVDTYV VPPSLVDAYI VAPSLVDSYI VAPGLVDCYI VSPSLVDSYI VAPSLVDAYI VPPSLVDAYI VAPSLVDAYI NTYDYMNGRV TPPSLVDAYL NTYDYMNGRV VAPSLVDAYI VAPGLVDCYI VPPSLVDAYI NTYDYMNGRV VAPSLVDAYI NTYDYMNKRV NTYDYMNGRV NTYDYMNGRV NTYDYMNGRV NTYDYMNGRV NTYGYINGRV NTYDYMNGRV NTYDYMNGRV NTYDYMNKRV NTYDYMINGRV NTYDYMNKRV NTYDYMNGRV NSYDYMNKRV NTYDYMNGRV NTYEYMNGRV NTYDYMNGRV NTYDYMNGRV NTYDYMNKRV NSYDYMNKRV NTYGYINGRV NTYDYMNGRV NTYDYMNGRV NTYDYMNGRV NTYDYMNKRV PSNVDISDNP PANITLPINT PANITLPINT PANITLPANT PANITLPTNT PANVTLPDNK PANITLPANT PSNVDISDNP PANITLPINT PANVTLPTNT PSNVQISNNP PANITLPINT PSNVDISDNP PANVTLPENK PANVTLPTNT PTNVTLPTNT PTWVTLPENK PANVTLPTNT PANITLPINT PSNVDISDNP PSNVDISDNP PSNVQISNNP PANITLPANT PANVTLPTNT PANITLPINT PANITLPINT PANITLPINT PANITLPINT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT LYLPDGYKYT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT LYLPDKLKYN LYLPDSYKYT LYLPDSYKYT LYLPDKLKYN LYLPDSYKYT LYLPDKLKYN LYLPDKLKYN LYLPDKLKYT LYLPDSYKYT LYLPDKLKYT LYLPDAYKYT LYLPDKLKYN LYLPDGYKYT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT LYLPDSYKYT WRNFLYANVA LYLPDSYKYT LYLPDSYKYT WRNFLYSNVA WRSFLYSNVA WRSFLYSNVA WRSFLYSNVA WRSFLYSNVA WRSFLYSNVA WRSFLYSNVA WRSFLYSNVA WRNFLYSNVA WRSFLYSNVA WRNFLYSNVA WRSFLYSNVA WRNFLYSNVA MRSFLYSNVA WRNFLYSNVA WRSFLYSNVA WRSFLYSNVA WRNFLYANVA WRNFLYSNVA WRNFLYANVA WRNFLYANVA WRNFLYANVA WRNFLYSNVA WRNFLYANVA WRSFLYSNVA WRNFLYANVA WRNFLYANVA CHAD4 CHAD6 CHAD8 PAN5 PAN6 CHAD5 CHAD7 HAD10 CHAD16 CHAD19 CHAD20 CHAD24 PAN7 CHAD9 CHAD11 CHAD17 CHAD26 CHAD30 CHAD31 CHAD37 CHAD38 CHAD44 CHAD22 CHAD82 CHAD63

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FIG. 31G

CHATECHETY 68
CHATECHETY CHATECHETY CHATECHETY CHATECHETY CHATECHETY CANADATA A CHATECHE CNMTKDWFLV CINMITKDWFLV CNMTKDWFLV CNMTKDWFLV CNMTKDWFLV CNMTKDWFLV CNMTKDWFLV CNMTKDWFLV VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ TPNEFEIKRT VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ TPNEFEIKRT VDGEGYNVAQ TPNEFEIKRT VDGEGYNVAQ TPNEFEIKRT VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ VDGEGYNVAQ TPNEFEIKRT TPNEFEIKRT CPNEFEIKRT TPNEFEIKRS TPNEFEIKRT TPNEFEIKRT TPNEFEIKRT TPNEFEIKRS TPNEFEIKRT TPNEFEIKRT TPNEFEIKRS TPNEFEIKRS TPNEFEIKRS TPNEFEIKRT TPNEFEIKRS TPNEFEIKRT TPNEFEIKRT TPNEFEIKRS TPNEFEIKRT TPNEFEIKRT TPNEFEIKRT TPNEFEIKRT TPNEFEIKRT TPNEFEIKRT KKVSIMFDSS VSWPGNDRLL VSWPGNDRLL KKVSIMFDSS VSWPGNDRLL KKVSITFDSS VSWPGNDRLL KKVSIMFDSS VSWPGNDRLL KKVSITFDSS VSWPGNDRLL VSWPGNDRLL KKVSITFDSS VSWPGNDRLL KKVSITFDSS VSWPGNDRLL VSWPGNDRLL VSWPGNDRLL KKVSVTFDSS VSWPGNDRLL VSWPGNDRLL KKVSITFDSS VSWPGNDRLL KKVSVTFDSS . KKVSIMFDSS KKVSITFDSS KKVSVTFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS KKVSVTFDSS KKVSVTFDSS KKVSVTFDSS KKVSVTFDSS KKVSIMFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS KKVSITFDSS DGTFYLNHTF FVYSGSIPYL FVYSGSIPYL FVYSGSIPYL YTYSGSIPYL FVYSGSIPYL FVYSGSIPYL FVYSGSIPYL FVYSGSIPYL FVYSGSIPYL YTYSGSIPYL YTYSGSIPYL YTYSGSIPYL FVYSGSIPYL YTYSGSIPYL FVYSGSIPYL YTYSGSIPYL FVYSGSIPYL YTYSGSIPYL FVYSGSIPYL PSLGSGFDPY SFTRLKTKET SFTRLKTRET SFTRLKTKET SFTRLKTKET SFTRLKTKET SFTRLKTRET SFTRLKTRET SFTRLKTRET SFTRLKTKET SFTRLKTRET SFTRLKTRET AFTRLKTKET SFTRLKTKET SFTRLKTKET SFTRLKTKET SFTRLKTKET AFTRLKTKET SFTRLKTRET SFTRLKTKET AFTRLKTKET AFTRLKTKET AFTRLKTKET AFTRLKTKET SFTRLKTKET SFTRLKTKET AFTRLKTKET SFTRLKTRET SFTRLKTRET SRNWAAFRGW CHAD6 CHAD8 CHAD5 CHAD7 CHAD4 CHAD9 CHAD10 CHAD16 CHAD19 CHAD20 CHAD26 CHAD38 CHAD44 PAN7 CHAD11 CHAD17 CHAD22 CHAD24 CHAD30 CHAD37 CHAD82 CHAD63 CHAD31

FIG. 31H

VTQKKFLCDR VTQKKFLCDR VTQKKFLCDR ITOKKFLCDR VTOKKFLCDR ITOKKFLCDR VTQKKFLCDR VTOKKFLCDR VTQKKFLCDR VTQKKFLCDR /TOKKFLCDR PLIGKSAVTS PLIGKSAVAS PLIGKSAVAS PLIGKTAVDS PLIGKSAVAS PLIGKTAVDS PLIGKSAVAS PLIGTTAVTS PLIGKTAVDS PLIGTTAVTS PLIGKSAVTS PLIGKSAVTS GQPYPANYPY GQPYPANYPY GQPYPANYPY GQAYPANFPY GOAYPANFPY GQPYPANYPY GQPYPANYPY GOPYPANYPY GQPYPANYPY GQPYPANYPY GOPYPANYPY GOAYPANYPY GOAYPANFPY VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRE VGYLAPTMRQ VGYHAPTLRQ VGYMAPTWRQ VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ

LAYQHNNSGF

QPMSRQVVDE VNYKDYQAVT

DRMYSFFRNF

QGFYVPEGYK

MLAHYNIGY

CHAD9

MLANYNIGY

QGFYIPEGYK

DRMYSFFRNF

LAYQHNNSGF LAYQHNNSGF LAYQHNNSGF

VNYKDYQAVT

QPMSRQVVDE QPMSRQVVDE QPMSRQVVDE QPMSRQVVDE

DRMYSFFRNF

DRMYSFFRNF

QGFYVPEGYK

QGFYVPEGYK

MLAHYNIGY MLAHYNIGY

> CHAD7 CHAD8

DRMYSFFRNF

DRMYSFFRNF

MLAHYNIGY

YDINYHALMC

CV68

ᄗ

MLAHYNIGY

CHAD5 CHAD6

CHAD4

VNYKDYQAVT VNYKEYQAVT

LAYQHNNSGF LAYQHNNSGF

LAYOHNNSGF

VNYKDYQAVT TKYKDYQEVG VNYKDYQAVT VNYKDYQAVT

INYKDYKAVA

QPMSRQVVDE QPMSRQVVDE QPMSRQVVDQ QPMSRQVVDE

DRMYSFFRNF DRMYSFFRNF

QGFYVPEGYK QGFYVPEGYK QGFYIPESYK QGFYVPEGYK

DRMYSFFRNF

90/101 ITOKKFLCDR VTQKKFLCDR ITOKKFLCDR VTQKKFLCDR VTQKKFLCDR VTQKKFLCDR VTQKKFLCDR VTOKKFLCDR PLIGKSAVAS VTOKKFLCDR VTHKKFĽCDR ITQKKFLCDR VTQKKFLCDR ITOKKFLCDR PLIGKSAVTS PLIGKSAVTS PLIGKSAVTS PLIGKSAVAS PLIGTTAVTS PLIGKTAVDS PLIGKSAVTS PLIGKTAVDS PLIGKSAVAS PLIGKTAVDS PLIGTTAVKS PLIGTTAVTS GOPYPANYPY GQPYPANYPY GQPYPANYPY GOPYPANYPY GOPYPANYPY GOPYPANYPY GQPYPANYPY GEPYPANYPY GQAYPANFPY GOPYPANYPY GQAYPANFPY GQAYPANFPY GOAYPANYPY GQPYPANYPY GQAYPANFPY VGYLAPTMRE VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRE VGYHAPTLRQ LAYQHNNSGF VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRE VGYLAPTMRE VGYLAPTMRE VGYMAPTMRQ VGYLAPTMRE QPMSRQVVDE VNYKDYQAVT LAYQHNNSGF VGYLAPTMRQ VGYLAPTMRQ VGYLAPTMRQ LAYOHNNSGF LAYOHNNSGF LAYQHNNSGF LAYQHNNSGF IIHQHNNSGF IIHQHNNSGF IIHQHNNSGF VPYQHNNSGF LAYQHNNSGF IIHQHNNSGF LAYQHNNSGF LAYQHNNSGF LAYOHNNSGF IIHQHNNSGF IIHQHNNSGF LAYQHNNSGF TKYKDYQEVG TKYKDYQEVG VNYKDYQAVT VNYKDYQAVT VNYKDYQAVT VNYKDYQAVT INYKDYKAVA VNYKDYQAVT QPMSRQVVDE VNYKDYQAVT QPMSRQVVDQ TKYKDYQEVG QPMSRQVVDE VNYKDYQAVT QPMSRQVVDQ TKYKDYQEVG QPMSRQVVDQ TKYKDYQEVG VNYKDYQAVT VNYKEYQAVT TKYKDYQEVG INYKEYQAVT **QPMSRQVVDE VNYKDYQAVT** QPMSRQVVDQ OPMSROVVDE QPMSRQVVDQ QPMSRQVVDE QPMSRQVVDE QPMSRQVVDQ QPMSRQVVDE QPMSRQVVDE QPMSRQVVDE OPMSROWDE OPMSROVVDE QGFYVPEGYK DRMYSFFRNF QGFYIPESYK QGFYVPEGYK QGFYIPESYK QGFYIPESYK QGFYVPEGYK QGFYIPESYK QGFYIPEGYK QGFYVPEGYK QGFYVPEGYK QGFYVPEGYK QGFYVPEGYK QGFYVPEGYK OGFYIPESYK QGFYVPEGYK QGFYIPEGYK QGFYIPESYK OGFYVPEGYK DMLANYNIGY DMLAHYNIGY **DMLAHYNIGY** MLAHYNIGY MLANYNIGY **UMLANYNIGY** MLAHYNIGY MLANYNIGY **JMLAHYNIGY** )MLAHYNIGY MLAHYNIGY MLAHYNIGY MLAHYNIGY **DMLANYNIGY** DMLAHYNIGY DMLANYNIGY **OMLANYNIGY** DMLANYNIGY MLANYNIGY PAN6 CHAD19 CHAD22 PAN5 CHAD10 CHAD16 CHAD17 CHAD20 CHAD24 CHAD26 CHAD30 CHAD38 PAN7 CHAD37 CHAD44 CHAD82 CHAD63 CHAD31 CHAD11

80.

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NATT VYLRTPFSAG HOPHRGVIEA HOPHRGVIEA HQPHRGVIEA HQPHRGVIET HQPHRGVIEA HOPHRGVIET HOPHRGVIET HQPHRGVIET HOPHRGVIEA HOPHRGVIET HQPHRGVIEA HQPHRGVIET HQPHRGVIEA HOPHRGVIEA HOPHRGVIEA HOPHRGVIEA HOPHRGVIEA HOPHRGVIET HOPHRGVIEA HQPHRGVIEA HOPHRGVIEA HQPHRGVIEA HOPHRGVIEA HQPHRGVIEA HOPHRGVIEA HOPHRGVIEA HOPHRGVIEA VFEVFDVVRV VFEVFDVVRV VFEVFDVVRV VFEVFDVVRV LFEVFDVVRV VFEVFDVVRV LFEVFDVVRV LFEVFDVVRV LFEVFDVVRV LFEVFDVVRV LFEVFDVVRV LFEVFDVVRA LFEVFDVVRV VFEVFDVVRV VFEVFDVVRV PMDESTLLYV VFEVFDVVRV LFEVFDVVRV VFEVEDVVRV LFEVFDVVRV VFEVEDWRV VFEVFDVVRV LFEVFDVVRV VFEVFDVVRV VFEVFDVVRV L'FEVFDVVRV VFEVFDVVRV VFEVFDVVRV VFEVFDVVRV PMDESTLLYV PMDESTLLYV PMDEPTLLYV PMDESTLLYV PMDEPTLLYL PMDEPTLLYL PMDEPTLLYV PMDESTILLYV PMDESTLLYV PMDESTLLYV PMDESTLLYV PMDESTLLYV PMDESTLLYV PMDEPTLLYV PMDEPTLLYV PMDESTLLYV PMDESTLLYV PMDESTILLYV PMDEPTLLYV PMDEPTLLYV PMDEPTLLYV PMDESTLLYV PMDEPTLLYL PMDESTLLYV PMDEPTLLYL PMDESTLLYV PMDEPTLLYL HALDMTFEVD HALDMNFEVD HALDMTFEVD HALDMTFEVD HALDMNFEVD GONMLYANSA HALDMNFEVD HALDMTFEVD HALDMNFEVD HALDMNFEVD HALDMNFEVD HALDMTFEVD HALDMNFEVD HALDMNFEVD HALDMTFEVD HALDMTFEVD HALDMTFEVD HALDMNFEVD HALDMTFEVD HALDMTFEVD HALDMTFEVD HALDMNFEVD HALDMNFEVD HALDMNFEVD HALDMNFEVD HALDMNFEVD HALDMTFEVD HALDMNFEVD HALDMNFEVD GONLLYANSA GONLLYANSA GONLLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONLLYANSA GONLLYANSA GONLLYANSA GONMLYANSS GONLLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONLLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONMLYANSA GONLLYANSA FMSMGALTDL FMSMGALSDL FMSMGALSDL FMSMGALTDL FMSMGALSDL FMSMGALTDL FMSMGALSDL FMSMGALTDL FMSMGALTDL FMSMGALTDL FMSMGALTDL VMWRIPFSSN **IMWRIPESSN** MWRIPFSSN TLWRIPESSN MWRIPFSSN MWRIPESSN MWRIPFSSN VMWRIPFSSN TMWRIPFSSN VMWRIPFSSN TLWRIPFSSN VMWRIPFSSN TLWRIPESSN TLWRIPFSSN PLWRIPFSSN IMWRIPFSSN TLWRIPFSSN VMWRIPFSSN PMWRIPFSSN TLWRIPFSSN IMWRIPFSSN VMWRIPESSN MWRIPFSSN MWRIPFSSN VMWRIPFSSN MWRIPFSSN VMWRIPFSSN MWRIPFSSN CHAD5 CHAD6 CHAD7 PAN6 CHAD4 CHAD8 CHAD9 CHAD10 CHAD16 CHAD19 CHAD38 PAN5 CHAD17 CHAD20 CHAD22 CHAD24 CHAD26 CHAD30 CHAD44 CHAD82 PAN7 CHAD11 CHAD31 CHAD37 CHAD63

**FIG. 31J** 

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ATGGAATTCGTTTAAACCATCATCAATAATATACCTC (SEQ ID NO: 27)

CGCTGGCACTCAAGAGTGGCCTC (SEQ ID NO: 28)

ATGAAGCTTGTTTAAACCCATCATCAATAATATACCT (SEQ ID NO: 29)

ATCTAGACAGCGTCCATAGCTTACCG (SEQ ID NO: 30)

TAGGCGCGCCCTTCTCCTCGTTCAGGCTGGCG (SEQ ID NO: 32)

GATCTAGTTAAACGAATTCGGATCTGCGACGCG (SEQ ID NO: 33)

TTCGATCATGTTTAAACGAAATTAAGAATTCGGATCC (SEQ ID NO: 34)

TATTCTGCGATCGCTGAGGTGGGTGAGTGGGCG (SEQ ID NO: 35)

TAGGCGCGCCCTTAAACGGCATTTGTGGGAG (SEQ ID NO: 36)

CGTCTAGAAGACCCGAGTCTTACCAGT (SEQ ID NO: 37)

CGGGATCCGTTTAAACCATCATCAATAATATACCTTATT (SEQ ID NO: 38)

ATGGAATTCGTTTAAACCATCATCAATAATATACCTT (SEQ ID NO: 39)

ATGACGCGATCGCTGATATCCTATAATAATAAAACGCAGACTTTG (SEQ ID NO: 40)

TGTCCTACCARCTCTTGCTTGA (SEQ ID NO: 45)

GTGGAARGGCACGTAGCG (SEQ ID NO: 46)

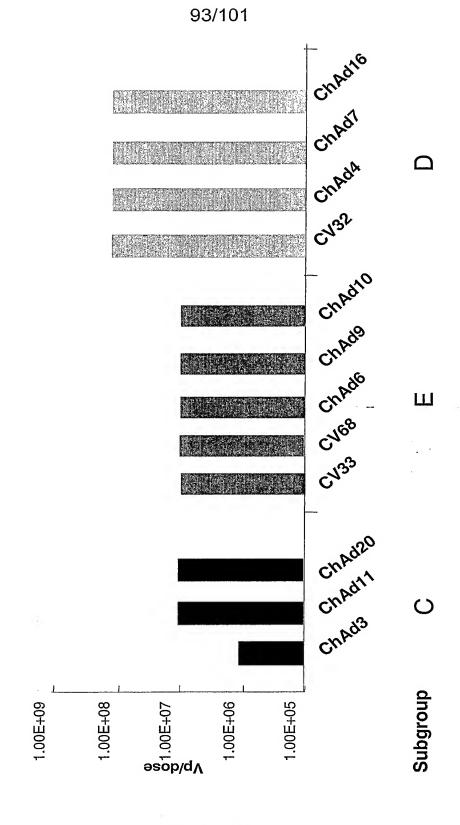


FIG. 33

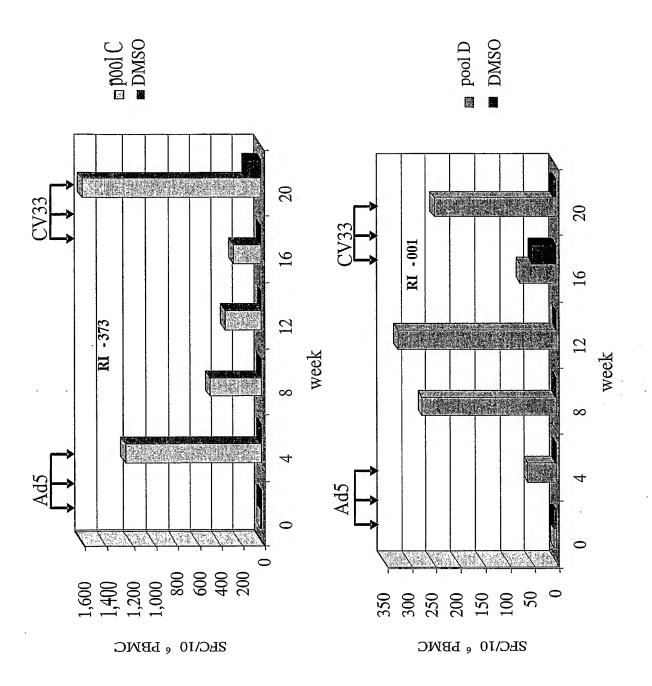


FIG. 34

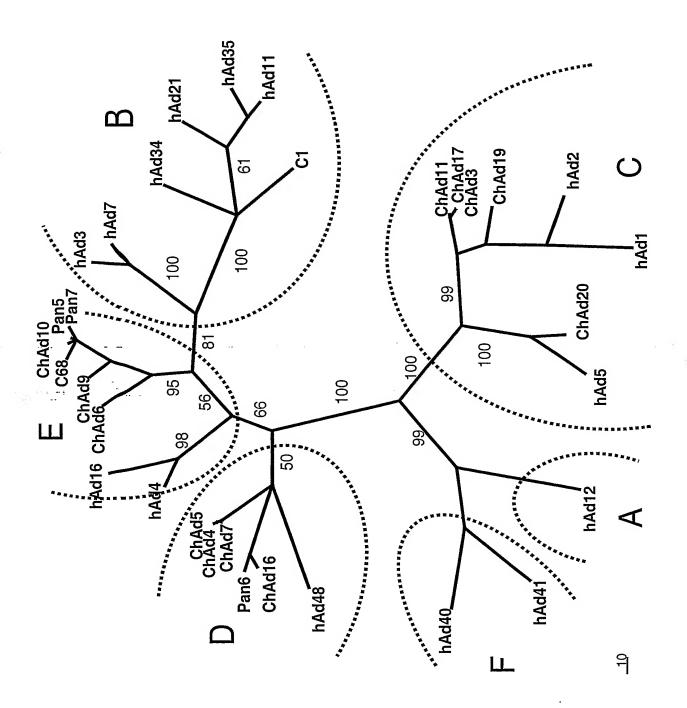
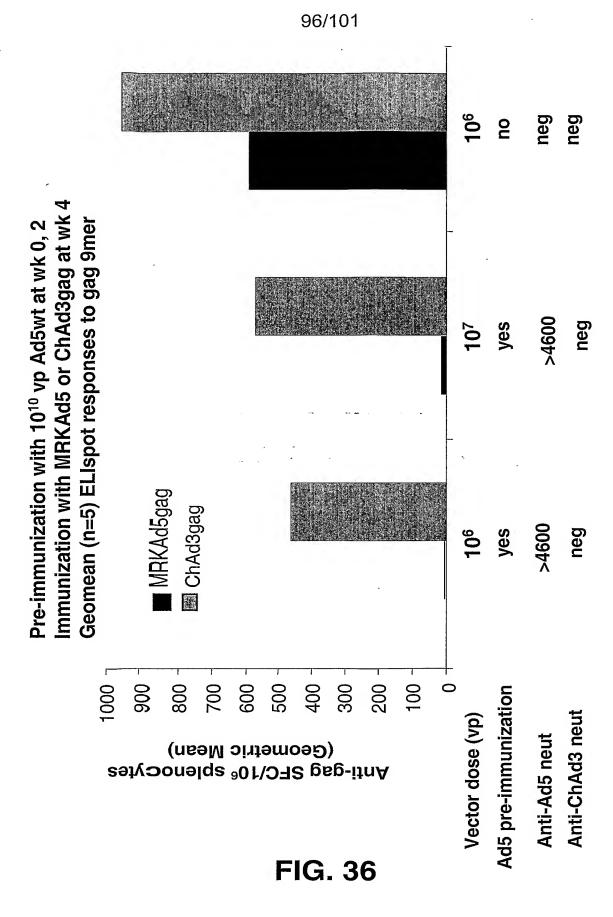


FIG. 35



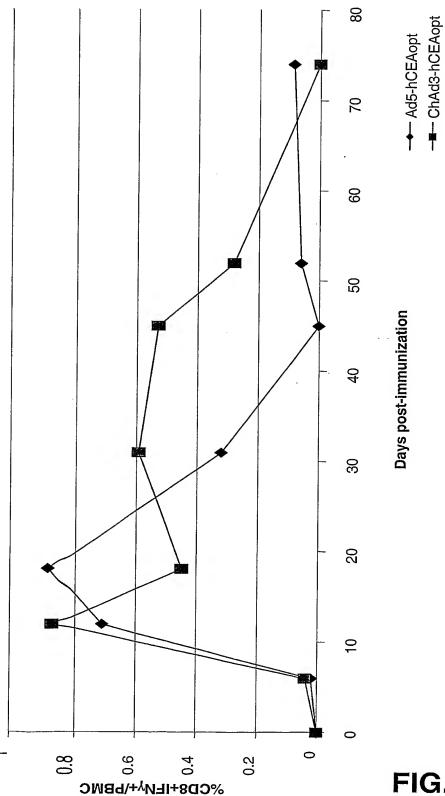
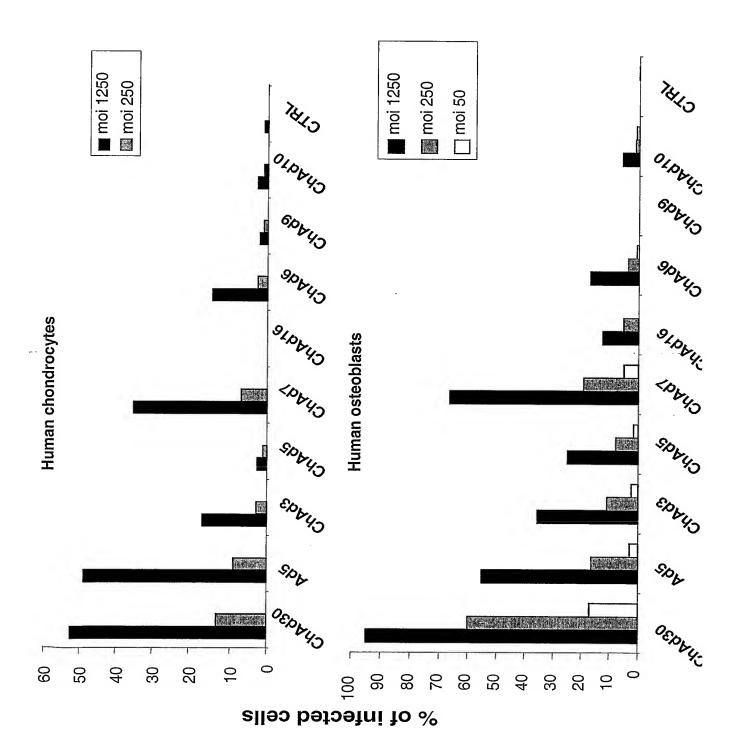
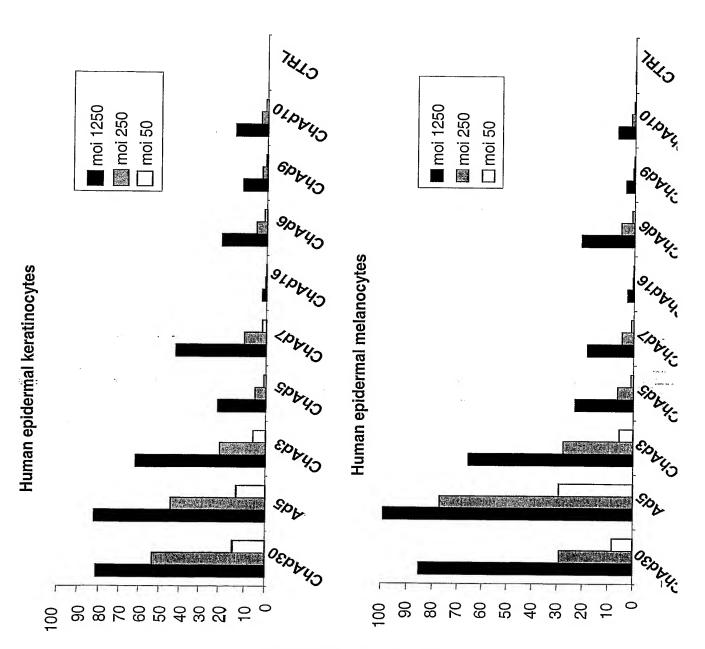


FIG. 37

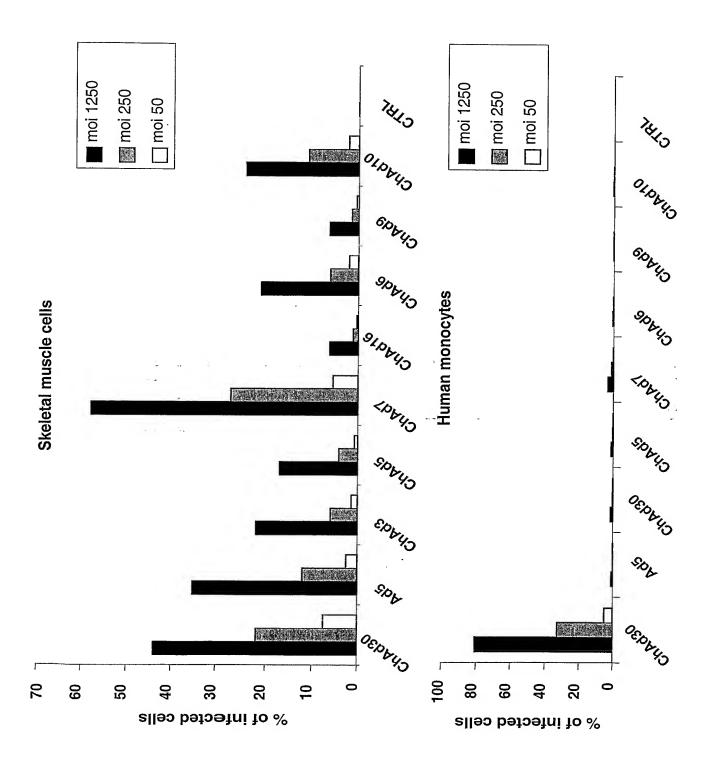


**FIG. 38A** 



% of infected cells

FIG. 38B



**FIG. 38C** 

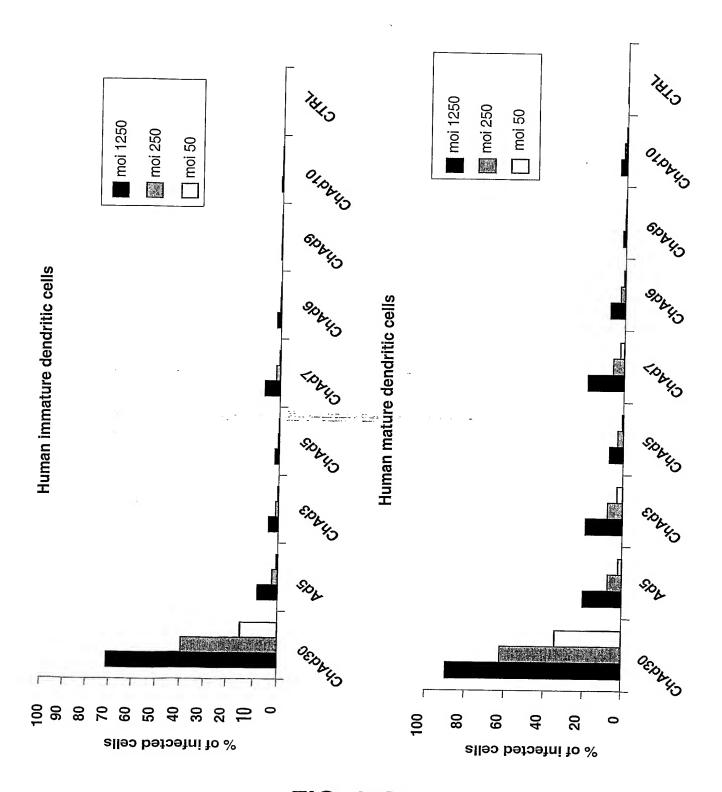


FIG. 38D